

Undergraduate Issue 1978-1979



Bulletin

Memphis State University

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BULLETIN OF
MEMPHIS STATE UNIVERSITY

*The Sixty-seventh session will open
August 25, 1978*

Billy M. Jones, Ph.D., *President*

Cecil C. Humphreys, Ph.D., *President Emeritus*

UNDERGRADUATE ISSUE 1978 - 1979
MEMPHIS, TENNESSEE FEBRUARY, 1978

Memphis State is an equal opportunity University

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Memphis State University, Memphis, Tennessee 38152.

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1978

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1979

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1978-79 Calendar

FALL SEMESTER 1978

- AUGUST 21, MONDAY through
AUGUST 24, THURSDAY
Off-campus registrations (Exact dates, times, and locations to be announced prior to registration.)
- AUGUST 24, THURSDAY
Meeting of the new members of the University faculty, University Center Ballroom, 9:00 a.m.
- AUGUST 25, FRIDAY
Meeting of the entire University faculty, University Center Ballroom, 9:00 a.m., followed by meetings by colleges and departments.
- AUGUST 26, SATURDAY
Registration—The Graduate School
- AUGUST 28, MONDAY through
AUGUST 30, WEDNESDAY
Registration Week—For detailed dates and times see the Bulletin (Schedule of Classes) for the fall semester, 1978
- AUGUST 31, THURSDAY
Classes meet as scheduled
- SEPTEMBER 4, MONDAY
Holiday—Labor Day
- SEPTEMBER 7, THURSDAY
Last day for adding courses
- SEPTEMBER 26, TUESDAY
Last day for removing summer session "Incomplete" grades
- OCTOBER 6, FRIDAY
Class Break
- *NOVEMBER 7, TUESDAY
Last day for dropping courses
- *NOVEMBER 7, TUESDAY
Last day to withdraw from the University
- NOVEMBER 22, WEDNESDAY
Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in May, 1979
- NOVEMBER 23, THURSDAY through
NOVEMBER 26, SUNDAY
Holiday—Thanksgiving
- DECEMBER 7, THURSDAY
Study Day
- DECEMBER 8, FRIDAY
Final examinations begin
- DECEMBER 16, SATURDAY
Commencement

SPRING SEMESTER 1979

- JANUARY 2, TUESDAY through
JANUARY 5, FRIDAY
Off-campus registrations (Exact dates, times, and locations to be announced prior to registration.)
- JANUARY 6, SATURDAY
Registration—The Graduate School
- JANUARY 8, MONDAY through
JANUARY 10, WEDNESDAY
Registration Week—For detailed dates and times see the Bulletin (Schedule of Classes) for the spring semester, 1979
- JANUARY 11, THURSDAY
Classes meet as scheduled
- JANUARY 17, WEDNESDAY
Last day for adding courses

- JANUARY 30, TUESDAY
Last day for removing fall semester "Incomplete" grades
- MARCH 4, SUNDAY through
MARCH 11, SUNDAY
Spring Holidays
- *MARCH 28, WEDNESDAY
Last day for dropping courses
- *MARCH 28, WEDNESDAY
Last day to withdraw from the University
- APRIL 11, WEDNESDAY
Last day to make application to the dean of the appropriate undergraduate college for degrees to be conferred in August, 1979
- APRIL 26, THURSDAY
Study Day
- APRIL 27, FRIDAY
Final examinations begin
- MAY 5, SATURDAY
Commencement

PRE-SUMMER SESSION 1979

- MAY 7, MONDAY
Registration
- MAY 8, TUESDAY
Classes meet as scheduled
- MAY 8, TUESDAY
Last day for late registration
- *MAY 18, FRIDAY
Last day to withdraw
- MAY 25, FRIDAY
Final examinations

FIRST SUMMER TERM 1979

- JUNE 5, TUESDAY through
JUNE 6, WEDNESDAY
Registration—For detailed dates and times, see the Bulletin (Schedule of Classes) for the summer session, 1979
- JUNE 7, THURSDAY
Classes meet as scheduled
- JUNE 11, MONDAY
Last day for adding first term courses
- JUNE 19, TUESDAY
Last day for removing spring semester "Incomplete" grades
- JULY 4, WEDNESDAY
Holiday—Independence Day
- *JUNE 28, THURSDAY
Last day for dropping first term courses
- *JUNE 28, THURSDAY
Last day to withdraw from the University (first summer term)
- JULY 12, THURSDAY
Final examinations

SECOND SUMMER TERM 1979

- JULY 16, MONDAY
Registration—For detailed dates and times, see the Bulletin (Schedule of Classes) for the summer session, 1979
- JULY 17, TUESDAY
Classes meet as scheduled

*These dates may be changed to an earlier date. Check the *Schedule of Classes*.

1978-79 Calendar

JULY 20, FRIDAY

Last day for adding second term courses

JULY 31, THURSDAY

Last day for making applications to the dean of the appropriate college for degree to be conferred in December, 1979

*AUGUST 7, TUESDAY

Last day for dropping second term courses

*AUGUST 7, TUESDAY

Last day to withdraw from the University (second summer term)

AUGUST 17, FRIDAY

Final examinations

AUGUST 18, SATURDAY

Commencement

EXTENDED SUMMER TERM 1979

JUNE 5, TUESDAY through

JUNE 6, WEDNESDAY

Registration—For detailed dates and times, see the Bulletin (Schedule of Classes) for the summer session, 1979

JUNE 7, THURSDAY

Classes meet as scheduled

JUNE 12, TUESDAY

Last day to add extended term courses

JUNE 19, TUESDAY

Last day for removing spring semester "Incomplete" grades

JULY 4, WEDNESDAY

Holiday—Independence Day

JULY 16, MONDAY through

JULY 17, TUESDAY

Mid-Term Break

AUGUST 1, WEDNESDAY

Last day for making application to the dean of the appropriate college for degrees to be conferred in December, 1979

*JULY 25, WEDNESDAY

Last day to drop extended term courses

*JULY 25, WEDNESDAY

Last day to withdraw from the University (extended term courses)

AUGUST 16, THURSDAY

Study Day

AUGUST 17, FRIDAY

Final examinations

AUGUST 18, SATURDAY

Commencement

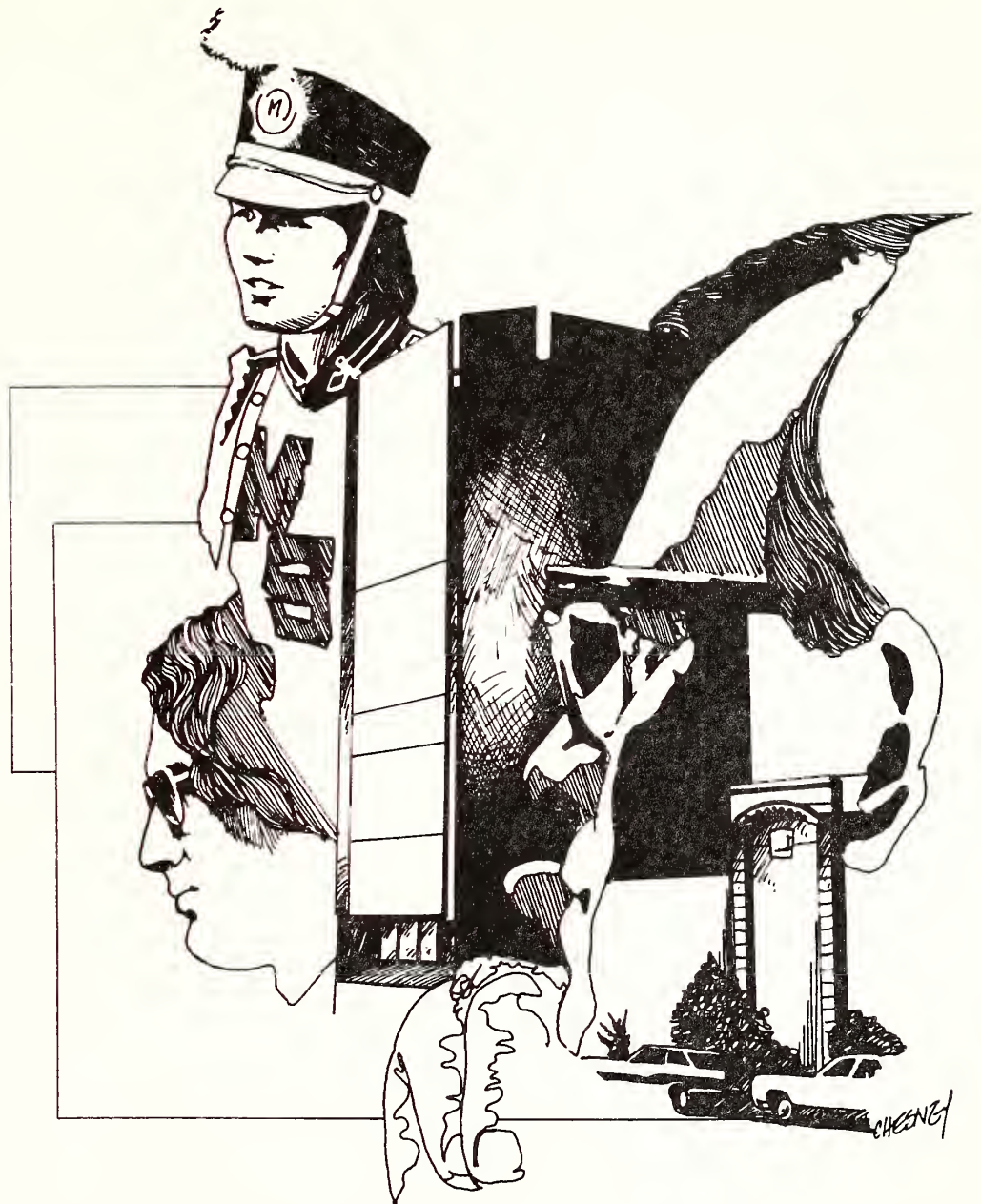
*These dates may be changed to an earlier date. Check the *Schedule of Classes*.

Dead Week. Definition: The four day period preceding final examination, beginning on the Monday before examinations and including Study Day (Thursday). No student social or athletic functions shall be scheduled during Dead Week.

Study Day. Definition: The day prior to final examinations during regular semesters. No academic activities shall be scheduled on Study Day. No study or review sessions which the student may feel obligated to attend may be scheduled.

Final Examination Period. No examination shall be given at a time other than the scheduled time except with written permission from the department chairman and the college dean. No social or athletic functions shall be scheduled during the Final Examination Period.

Intercollegiate athletics are excepted from the above policies.



1 Description of the University

GENERAL DESCRIPTION

Goals of the University

The primary purpose of Memphis State University is to advance learning. The University is dedicated first to the traditional ideals of learning by focusing its attention and efforts upon the creation, transmission, and application of knowledge. Secondly, it is committed to goals that are utilitarian in (1) preparing students to serve in a variety of professions and occupations, and in (2) providing services to society for improving the quality of life and environment. Through instruction, research, and public service, the University offers a diversity of learning opportunities for the pursuit of knowledge and truth in an atmosphere of free inquiry and open discussion. A community of learning, the University exists to nurture students in achieving intellectual competence, maturity, and self development.

Memphis State University recognizes its responsibility to meet the needs of a changing social and economic order. The University missions are primarily met through programs and activities of undergraduate education, graduate education, continuing education, and of research and public service. The undergraduate program offers a variety of experiences that are both liberal and specialized in character. Graduate education provides further opportunities in the professions, the arts, and the sciences. Continuing education serves the educational interests and needs of the community by promoting programs which complement the courses of study offered by degree-granting colleges. Research and service activities—contributing to the vitality of sound instruction and learning—not only advance knowledge but also apply knowledge to the improvement of life and the environment. These programs and activities are not mutually exclusive. Each contributes to the basic purpose of the University—to promote learning.

Memphis State University is dedicated to these purposes:

1. Providing opportunities for its students to experience an education

which is both liberal and specialized in character.

2. Preparing its students to serve in a variety of professions and occupations upon which society depends.
3. Developing graduates whose accomplishments attest to their intellectual discipline, curiosity, maturity, and professional competence.
4. Encourage scholarly research and creative effort designed to advance the frontiers of knowledge and to enrich the cultural dimensions of society.
5. Providing services which bring knowledge to focus on societal problems, with particular emphasis on urban needs, for the purpose of improving the quality of life and environment.
6. Maintaining facilities and an atmosphere conducive to learning and the advancement of knowledge.

Historical Statement

In 1909 The General Assembly of Tennessee enacted a General Education law which provided for the establishment and maintenance of three normal schools, one school to be located in each of the three grand divisions of the state. Memphis and Shelby County contributed \$350,000 and a site of approximately 80 acres near the eastern edge of the city. On September 15, 1912, West Tennessee State Normal School opened.

In 1925, the institution became a senior college, and the name was changed to West Tennessee State Teachers College. In 1941 the school's liberal arts curriculum was enlarged, and the name was changed to Memphis State College. The undergraduate program was reorganized into three schools in 1951, and a graduate school was added. On July 1, 1957, by action of the Tennessee legislature, the institution was designated Memphis State University.

Governing Body

The governance, management and control of Memphis State University is vested in the State Board of Regents. The sixteen member Board includes four *ex officio* members: the Governor, the Commissioner of Education, the Executive Director of the Tennessee Higher Education Commission, and the Commissioner of Agriculture. Twelve public members are appointed by the Governor: one member is selected from each congressional district and four members are selected at large from different geographical areas of the state.

Memphis State University is the largest of the institutions of higher education under the direction of the Board of Regents. The other institutions with baccalaureate and graduate programs are Austin Peay State University at Clarksville; East Tennessee State University at Johnson City; Middle Tennessee State University at Murfreesboro; Tennessee State University at Nashville; and Tennessee Technological University at Cookeville.

Organization

Memphis State University is comprised of six undergraduate colleges, The School of Law, The Graduate School, and the Office of Public Service and Continuing Education. The undergraduate colleges are The College of Arts and Sciences, The College of Business Administration, The College of Communication and Fine Arts, The College of Education, The Herff College of Engineering, and The University College. There are six independent programs: AFROTC, Audiology and Speech Pathology, City and Regional Planning, International Studies, Nursing, and Urban Studies. The Office of Public Service and Continuing Education coordinates off-campus degree credit courses in metropolitan Memphis and regional centers; CEU (Continuing Education Unit) credit through conferences, institutes, short courses, etc.; and non-credit courses designed to provide increased opportunities for the people of this area to avail themselves of University facilities and services.

Undergraduate Academic Programs
THE COLLEGE OF ARTS AND SCIENCES

Department	Major	Concentrations Within Major	Degree Offered
Anthropology	Anthropology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Biology	Biology	(1) Botany (2) Microbiology (3) Invertebrate Zoology/Entomology (4) Vertebrate Zoology	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Chemistry	Chemistry		Bachelor of Arts (B.A.) Bachelor of Science (B.S.) Bachelor of Science in Chemistry (B.S.Ch.)
	Physical Science		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Institute of Criminal Justice	Criminal Justice	(1) Corrections (2) General Criminal Justice (3) Police	Bachelor of Arts (B.A.)
Economics	Economics		Bachelor of Arts (B.A.)
English	English		Bachelor of Arts (B.A.)
Foreign Language	French		Bachelor of Arts (B.A.)
	German		
	* Russian		
	Spanish		
	Latin		
Geography	Geography	(1) No Concentration OR (2) Cartography (3) Earth Science	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
History	History		Bachelor of Arts (B.A.)
Mathematical Sciences	Mathematical Sciences	(1) Mathematics (2) Applied Mathematics (3) Computer Science (4) Statistics	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Philosophy	Philosophy		Bachelor of Arts (B.A.)
Physics	Physics		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Political Science	Political Science		Bachelor of Arts (B.A.)
	Public Administration		Bachelor of Arts (B.A.)
Psychology	Psychology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Sociology and Social Work	Sociology	(1) General Sociology (2) Manpower (3) Social Research (4) Urban Sociology	Bachelor of Arts (B.A.)
	Social Work		Bachelor of Arts (B.A.)
Interdepartmental Programs	Comparative Literature		Bachelor of Arts (B.A.)
	Medical Technology		Bachelor of Science in Medical Technology (B.S.M.T.)

* A major in Russian requires a second major.

THE COLLEGE OF BUSINESS ADMINISTRATION

Department	Major	Concentrations Within Major	Degree Offered (B.B.A.)
Accountancy	Accounting		Bachelor of Business Administration
Economics	Business Economics		Bachelor of Business Administration
Finance, Insurance, Real Estate	Finance		Bachelor of Business Administration
	Insurance		Bachelor of Business Administration
	Real Estate		Bachelor of Business Administration
Management	Management	(1) General Management (2) Manpower Management (3) Production Management (4) Personnel Administration and Industrial Relations (5) Quantitative Methods and Business Systems	Bachelor of Business Administration
Marketing	Marketing	(1) Advertising (Marketing Communications) (2) Marketing Management (3) Transportation and Logistics (4) Retailing (5) Sales	Bachelor of Business Administration
Office Administration	Office Administration	(1) Secretarial (2) Office Management	Bachelor of Business Administration
Interdisciplinary Program	International Business		Bachelor of Business Administration

Undergraduate Academic Programs
THE COLLEGE OF COMMUNICATION AND FINE ARTS

Department	Major	Concentrations Within Major	Degree Offered
Art	Art	(1) Art Education (2) Graphic Design (3) Interior Design (4) Ceramics, Painting, Sculpture, Printmaking (5) Design	Bachelor of Fine Arts (B.F.A.)
	Art History		Bachelor of Arts (B.A.)
Journalism	Journalism	(1) Advertising (2) Broadcast Journalism (3) News Editorial (4) The Magazine (5) Press Photography (6) Public Relations	Bachelor of Arts (B.A.)
Music	Music Performance	(1) Brass Instruments (2) Opera (3) Organ (4) Percussion (5) Piano and/or Harpsichord (6) Strings (7) Voice (8) Woodwinds	Bachelor of Music (B.M.)
	Musical Arts	(1) Church Music (Choral) (2) Church Music (Organ) (3) Composition (4) Music History (5) Music Theory (6) Piano Pedagogy (7) Accompanying	Bachelor of Music (B.M.)
	Applied Music		Bachelor of Arts (B.A.)
	Music History and Literature		Bachelor of Arts (B.A.)
	Speech and Drama	(1) General Speech (2) Radio-TV-Film (3) Rhetoric and Communication Arts (4) Theatre	Bachelor of Arts (B.A.)
Speech and Drama	Theatre	(1) Performance (2) Production	Bachelor of Fine Arts (B.F.A.)

THE COLLEGE OF EDUCATION

Department	Major (Concentration)	**ENDORSEMENTS		Degree Offered
		Major Endorsement	Minor Endorsement	
Curriculum and Instruction	Elementary Education	Elementary Education	Kindergarten	Bachelor of Science in Education (B.S.Ed.)
	Early Childhood Education (K-3)			
	Secondary Education	Art Education Business Education Distributive Education English Foreign Languages French German Latin Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education	Business Education Secretarial Practice Bookkeeping, General Business, Typewriting Economics, Consumer Education, General Business, Business Law Driver Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education	

**The endorsements are listed only with the departments in which they are offered, but they may accompany any major.

**Undergraduate Academic Programs
THE COLLEGE OF EDUCATION**

Department	Major (Concentration)	**ENDORSEMENTS		Degree Offered
		Major Endorsement	Minor Endorsement	
Curriculum and Instruction (continued)	Secondary Education (continued)	Mathematics Math & Phys. Science Music Education Instrumental Music School Music Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama Vocational Home Economics	Library Service Mathematics Psychology Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech *Drama	Bachelor of Science in Education (B.S.Ed.)
Distributive Education	Distributive Education	Distributive Education		Bachelor of Science in Education (B.S.Ed.)
Health, Physical Education and Recreation	Health Education	Health Education	Health Education	Bachelor of Science in Education (B.S.Ed.)
	Physical Education (Elementary) (Secondary)	Elementary Physical Education Secondary Physical Education	Elementary Physical Education Secondary Physical Education	
	*Recreation and Park Administration			
Home Economics	*Dietetics			Bachelor of Science in Home Economics (B.S.H.E.)
	*Merchandising (Fashion) (Home Furnishing)			
	*Food Administration			
	*Child Development			Bachelor of Science in Education (B.S.Ed.)
	Vocational Home Economics (Occupational Child Care Services) (Occupational Clothing Services) (Occupational Food Services)	Vocational Home Economics		
Library Service			Library Service	
Music Education (Division of)	Music Education (General Music) (Instrumental Music) (School Music)	Music Education Instrumental Music School Music		Bachelor of Music Education (B.M.Ed.)
Special Education and Rehabilitation	Special Education	Special Education	Special Education	Bachelor of Science in Education (B.S.Ed.)
	*†Rehabilitation Education			

* Not approved as a valid certification area in Tennessee

† See page 73 for concentrations.

**The endorsements are listed only with the departments in which they are offered, but they may accompany any major.

THE HERFF COLLEGE OF ENGINEERING

Department	Major	Concentrations Within Major	Degree Offered
Civil Engineering	Civil Engineering*	(1) Environmental Engineering (2) Foundation Engineering (3) Structural Engineering (4) Transportation Engineering	Bachelor of Science in Civil Engineering (B.S.C.E.)
Electrical Engineering	Electrical Engineering*	(1) Solid State Electronics (2) Energy Conversion (3) Control Systems (4) Computer Science (5) Microwave Antenna Systems	Bachelor of Science in Electrical Engineering (B.S.E.E.)
Geology	Geology		Bachelor of Science in Geology (B.S.G.)
Mechanical Engineering	Mechanical Engineering*	(1) Design and Manufacturing (2) Energy Systems (3) Fluid Power Systems (4) Mechanical Systems (5) Aerospace Propulsion	Bachelor of Science in Mechanical Engineering (B.S.M.E.)

*Note: Accredited by the Engineer's Council for Professional Development.

Undergraduate Academic Programs THE HERFF COLLEGE OF ENGINEERING

Department	Major	Concentrations Within Major	Degree Offered
Engineering Technology	Architectural Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Computer Systems Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Construction Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Electronics Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Manufacturing Technology*	(1) Drafting and Design Technology* (2) Forest Products (3) Industrial Safety (4) Production Management (5) Supervision	Bachelor of Science in Engineering Technology (B.S.E.T.)
	Industrial Arts		Bachelor of Science in Technology (B.S.T.)

*Note: Accredited by the Engineer's Council for Professional Development.

THE UNIVERSITY COLLEGE

Department	Major	Concentration Within Major	Degree Offered
*	Individual Studies	**	Bachelor of Liberal Studies (B.L.S.) Bachelor of Professional Studies (B.P.S.)

*The college is not comprised of departments. Its programs are interdisciplinary and may make use of all departments in the University.

**The student and an advisory committee design contract degrees.

INDEPENDENT PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Nursing	Nursing		Associate of Science (A.S.) Bachelor of Science in Nursing (B.S.N.)
Urban Studies	†Urban Studies		Bachelor of Arts (B.A.)
**International Studies	†Latin American Studies		Bachelor of Arts (B.A.)
	International Relations	(1) American Foreign Policy (2) Western Europe (3) Latin America (4) Asia (5) Soviet (6) Sub-Saharan Africa (7) Middle East and North Africa	Bachelor of Arts (B.A.)
	African Studies		Certificate

**See also the listing for the College of Business Administration.

†Collateral major recommended.

Accreditation and Institutional Membership

The University is fully accredited by the Southern Association of Colleges and Schools and is a member of the Association of American Colleges, the Tennessee College Association, the American Association of Colleges for Teacher Education, the American Council on Education, and the National Collegiate Athletic Association. The various colleges, schools and departments and/or their curricula are accredited by or they are members of the following:

American Association of Collegiate Schools of Business
American Association of State Colleges and Universities
American Association of University Women
American Bar Association

American Chemical Society
American College and University Concert Managers
American Council on Education for Journalism
American Psychological Association
American Speech and Hearing Association
Association of University Evening Colleges
Board of Law Examiners of Tennessee
Council on Social Work Education
Engineers' Council for Professional Development
National Association of Schools of Music
National Association of Summer Sessions
National Commission on Accrediting
National Council for Accreditation of Teacher Education
National League of Nursing

National Opera Association
Oak Ridge Associated Universities
Southern Universities Student Government Association
Tennessee Board of Nursing
Tennessee Education Association

FACILITIES AND SERVICES

The facilities and services described below are some of the many available to University students and faculty. Some of the other facilities and services are described in the particular college and department sections of the *Bulletin*.

Evening Academic Services

R. WILSON WALKER, B.S., M.A., Ed.S.,
Dean
Administration Building, Room 165

The Evening Academic Services office provides the full range of academic

services to evening and Saturday students normally available to regular day students. The services include academic advising; career, vocational, personal, and change of major counseling; registration assistance; transcript request and evaluations; course drop, add and withdrawals; financial aid, health service, and other referrals; admissions and readmissions counseling; orientation information; traffic and parking fees, decals and tickets; Notary Public services. The office is located in the Administration Building, Room 165.

Library Facilities

The libraries of Memphis State University include the John Willard Brister Library and specialized collections in the Department of Chemistry, the Department of Mathematical Sciences, the Department of Music, the Herff College of Engineering, the School of Law, the Speech and Hearing Center, and the Bureau of Business and Economic Research. The total collection numbers more than 700,000 bound volumes and some 1,000,000 pieces of micromaterial.

The Brister Library contains a reference and bibliography section, an inter-library loan service, a map collection, the Mississippi Valley Collection (reflecting the history and culture of that region); it is also a depository for United States government documents and Tennessee State documents. Private study carrels are available for assignment to faculty members and graduate students engaged in research.

The John W. Brister Library and the Library of the University of Tennessee Medical Units and the Burrow Library of Southwestern at Memphis have agreed to a shared use of the respective collections by the students, faculties, and staffs of the institutions.

Computer Facilities

Computing support for the instructional program of the University and for faculty research is provided by Computer Services. The central computing system is a Xerox Sigma 9 computer which has 768K bytes of main storage and which supports both time-sharing and remote batch job entry. Remote batch job entry stations are located in the Herff College of Engineering, the College of Business Administration, the Administration Building, and the Mathematics and Foreign Language Building.

Center for Instructional Service and Research

The Center for Instructional Service and Research provides services in the areas of learning facilitation and instructional improvement for all departments of the university. These services are performed by three divisions of the Center, as follow:

Learning Media Division provides a full array of media services, including film and cassette dissemination, use of educational technology equipment and maintenance of such equipment. In addition, facilities are available for the use of media items within the center by faculty and students. Equipment for production of audio-visual materials for instructional use also is available.

Instructional Development and Support Division provides services to faculty members who wish to initiate innovations or changes to facilitate learning or improve instruction. These services include consulting and assistance with development of instructional material, participation in evaluation of experimental programs, and dissemination of information concerning optimizing learning and instruction. Faculty participation in instructional improvement is encouraged by a program of small grants that provide both resources and recognition for well conceived projects. An "experimental classroom," with educational technology equipment not generally available in other classrooms may be scheduled by faculty members for one or more class meetings.

Instructional Television Division provides a modern television studio for use in courses offered by various departments of the university and in production of instructional material in the video mode. The studio has full color capability both within the studio and by means of portable equipment, outside the studio.

The Center is located in the John Willard Brister Library Building, room 115.

University Development Program

The goal of the University Development Program is to generate private gift support for the University's academic programs, and functions to solicit contributions, gifts and bequests for the advancement of Memphis State University as an institution of excellence. Resulting gifts are utilized toward student scholarships, department projects, research, visiting distinguished profes-

sors, faculty salary supplements, visiting lecturers, library and art acquisition and similar activities of benefit to the University.

The University's Office of Development is the coordinating agency charged with the responsibility of achieving the objectives enumerated above through activities of the Annual Fund, President's Council, Memphis State University Foundation, special recognition clubs, Greater Memphis State Incorporated, etc.

Memphis State University Press

In 1968, Memphis State University Press was established as a book publishing department of Memphis State University. Its editorial policies are controlled by a committee composed of the Press's director and faculty members and administrators appointed by the President. The editorial policy of the Press aims at the development and publication of scholarly books with a wide appeal for the academic community and welcomes works of regional interest, on Tennessee and the Mid-South. In emphasizing scholarly works, the Press gives preference to those of fairly broad interest and application.

CONTINUING EDUCATION AND GRADUATE PROGRAMS

The Office of Public Service and Continuing Education

JOHN A. RHODES, JR., B.S., M.S.,
Ph.D., Vice President
360 Administration Building

Instructional Services

The Office of Public Service and Continuing Education offers instructional services enriching and extending the traditional full-time program. Each of these services is designed to increase the availability of the faculty and the facilities of the University to individuals and groups in the Mid-South area. The Office coordinates degree credit offerings at residence centers in metropolitan Memphis and the West Tennessee region as well as CEU (Continuing Education Unit) and non-credit activities.

RESIDENCE CENTERS

Institutional services of the University are extended to areas off the campus and through educational television. Undergraduate, graduate, and non-credit short courses are given at locations within the state where suitable advance arrangements are made. The subject matter of such courses is the same as that of courses taught on the campus.

Correspondence is invited with groups of individuals who are interested in any phase of this program. Please address all inquiries and suggestions to the Vice President, Office of Public Service and Continuing Education.

CONFERENCE SERVICES

This service provides CEU and non-credit programs in various occupational, technical, and general education fields. It assists state agencies, educational institutions, recognized civic organizations, professional groups, and departments of the University in the development and presentation of conferences so as to provide a wide variety of educational opportunities for adults throughout the Mid-South.

The staff of the Office will assist in planning programs, preparing and distributing printed materials, engaging speakers, handling registration, and other matters pertaining to conferences and institutes.

Professional, business and cultural groups who wish to avail themselves of the services of the teaching staff and the facilities of the University, either on or off the main campus, are welcome to schedule instructional meetings through the Division of Special Programs, phone 454-2021.

SPECIAL INTEREST, NON-CREDIT SHORT COURSES

These classes are for men and women who have a particular interest in a subject and a desire to learn more about that subject but who do not wish to engage in the formalities of formal admission, grades and examinations. The courses offered do not duplicate credit courses which are described in the *Bulletin*. Announcements of special interest, non-credit courses to be offered are issued before the beginning of each semester in a special brochure and through news media of the Mid-South. Schedules may be obtained by contacting the Division of Extended Programs, phone 454-2700.

CENTER FOR NUCLEAR RESEARCH

The Center for Nuclear Studies conducts development programs in the fields of education and research for nuclear and other energy related fields. Through the endeavors of this Center, Memphis State University was designed as the nation's first Regional Center for Nuclear Manpower Development by the Southern Interstate Nuclear Board. In the field of education, the Center develops programs directed toward matching university education to the needs of industry and govern-

ment. Training programs in industrial specialties are offered both on campus and at industrial plant sites throughout the nation. The educational staff of the Center is composed of instructors with industrial experience and regular university faculty members from academic departments. In the field of research, the Center works with university faculty, administration, and other members of the community in developing new research projects related to industrial needs and in providing equipment necessary for the efficient pursuit of these projects. The equipment available through the Center for university research includes a nuclear reactor and specialized analysis equipment. Educational programs in the Center for Nuclear Studies are administered through the Office of Public Service and Continuing Education.

Continuing Education Unit

Participants in certain approved programs sponsored by the Office of Public Service and Continuing Education are now awarded "Continuing Education Units". One unit is awarded for each ten hours of instruction, with decimal units given for less than ten hours. These units are recorded on a permanent transcript for each individual. Participants may obtain a transcript of their participation upon request. Copies will be forwarded to designated groups, associations, or employers when requested by participants.

The awarding of CEU's is part of a national movement to provide records for participation in non-credit continuing education activities. Many organizations and professions are now requiring adults to continue their education. The use of the CEU is an effort to provide a standard unit of measure by which these organizations and professions may grant the proper recognition to their constituents for having participated in continuing education programs. *CEU's do not constitute academic credit earned at Memphis State University.*

Public Service

The University's diverse community is served through several special activities of the Office of Public Service and Continuing Education. Through participation in the Tennessee Regional Training Network for Government Employees, several short course programs in motivation, supervision and management are offered for employees of local government agencies. The Human Services Co-Op provides infor-

mation referral and program assistance to social service agencies. The Adult Resource Center offers its services to adult students who are either returning to college after a long absence or are beginning an academic program late in life. Thousands of residents of Memphis and the Mid-South are kept informed through special lecture series such as "Meet the Professor," now in its tenth year. These special activities, plus others that are developed as needs arise, serve to bring the University closer to the entire community.

THE GRADUATE SCHOOL

EDMUND P. SEGNER, JR.,
B.S.C.E., M.S.C.E., Ph.D.

*Associate Vice President for
Graduate Studies and Research*

ALICIA C. TILLEY, B.S., M.Ed., Ed.D.,
Dean for Graduate Studies

Administration Building, Room 315

Purpose

The Graduate School of Memphis State University is the center of advanced study and research within the University. The basic objectives of The Graduate School are (a) to preserve and disseminate knowledge; (b) to extend knowledge through research; and (c) to prepare men and women to assume a more responsible and useful role in a changing society.

Admission

The Graduate School is open to persons holding the Bachelor's degree from colleges and universities recognized by standard, general and regional, accrediting agencies, and whose undergraduate work has been of sufficient quality and scope to enable them to pursue graduate study profitably. Satisfactory entrance examination scores are required for all students who seek to be admitted to graduate study. A prospective student should contact The Graduate School Office to ascertain admission requirements and the appropriate examination to be taken.

The regulations and policies of The Graduate School are explained in greater detail in The Graduate School Bulletin. Application for admission must be made on the admission application form supplied by The Graduate School. Inquiries concerning The Graduate School should be addressed to the Dean of The Graduate School.

Programs

A student may study in thirty-eight

departments with various majors and areas of specialization. The Masters degree is offered by each of the thirty-eight departments. The Doctor of Philosophy degree is offered by the

departments of audiology and speech pathology, biology, chemistry, history, mathematical sciences, and psychology. The Doctor of Musical Arts is offered by the Department of Music. The

Doctor of Education and Education Specialist degrees are offered by various departments within the College of Education.

GRADUATE ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major (Possible)	Degree Offered
Accounting	Accounting		Master of Science (M.S.)
	Business Administration	Accountancy	Master of Business Administration (M.B.A.)
Anthropology	Anthropology	(1) Urban Anthropology (2) Medical and Nutritional Anthropology (3) Archeology as a Public Service	Master of Arts (M.A.)
Art	Studio Art	(1) Painting (2) Sculpture (3) Printmaking (4) Graphic Design (5) Interior Design	Master of Fine Arts (M.F.A.)
	Art	(6) Art History	Master of Arts (M.A.)
		(7) Art Education	Master of Arts in Teaching (M.A.T.)
Audiology and Speech Pathology	Audiology and Speech Pathology	(1) Audiology (2) Speech Pathology	Master of Arts (M.A.) Doctor of Philosophy (Ph.D.)
Biology	Biology	(1) Botany (2) Cell Biology (3) Invertebrate Zoology (4) Microbiology (5) Vertebrate Zoology	Master of Science (M.S.) Doctor of Philosophy (Ph.D.)
Chemistry	Chemistry	(1) Inorganic (2) Analytical Chemistry (3) Organic (4) Physical Chemistry (5) Biochemistry	Master of Science (M.S.) Doctor of Philosophy (Ph.D.)
Civil Engineering	Civil Engineering	(1) Environmental Engineering (2) Foundation Engineering (3) Structural Engineering (4) Transportation Engineering	Master of Science (M.S.)
Departments of the College of Business Administration	Business Administration	(1) Accounting (2) Finance, Insurance, Real Estate (3) Law (4) Management (5) Marketing (6) Economics	Master of Business Administration (M.B.A.)
Curriculum and Instruction	Curriculum and Instruction		Master of Science (M.S.)
	Elementary Education	(1) No Concentration or (2) Early Childhood Education	Master of Education (M.Ed.)
	Reading		Master of Education (M.Ed.)
	Secondary Education		Master of Education (M.Ed.) Master of Arts in Teaching (M.A.T.)
Interdepartmental Programs (Education)	Curriculum and Instruction	Music Education	Education Specialist (Ed.S.)
		No Concentration or (1) Elementary Education (2) Reading (3) Secondary Education (4) Higher Education (5) English Education (6) Science Education (7) Business Education (8) Social Studies Education (9) Mathematics Education (10) Special Education and Rehabilitation (11) Cultural Foundations (12) Educational Psychology (13) Research Methodology and Statistics	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
Distributive Education	Distributive Education		Master of Education (M.Ed.)
Economics	Economics		Master of Arts (M.A.)
	Business Administration	Economics	Master of Business Administration (M.B.A.)
Educational Administration and Supervision	Educational Administration and Supervision	(1) General	Master of Science (M.S.)
		(2) Elementary (3) Secondary	Master of Education (M.Ed.)

GRADUATE ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major (Possible)	Degree Offered
Educational Administration and Supervision (continued)	Educational Administration and Supervision (continued)	(1) Superintendency	Education Specialist (Ed.S.)
		(2) Elementary	
		(3) Secondary	
		(4) Higher Education	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
		No Concentration	Doctor of Education (Ed.D.)
	Adult Education		Master of Education (M.Ed.)
Electrical Engineering	Electrical Engineering	(1) Solid State Electronics (2) Automatic Control Systems (3) Engineering Computer Systems (4) Microwave and Antenna Systems	Master of Science (M.S.)
Engineering Technology	Technical Education	(1) Architectural (2) Construction (3) Drafting and Design (4) Electronics (5) Manufacturing (6) Industrial Arts	Master of Science (M.S.)
English	English		Master of Arts (M.A.)
Finance, Insurance, Real Estate	Finance		Master of Science (M.S.)
	Business Administration	Finance, Insurance, Real Estate	Master of Business Administration (M.B.A.)
Foreign Language	French		Master of Arts (M.A.)
	Spanish		Master of Arts (M.A.)
Geography	Geography		Master of Arts (M.A.) Master of Science (M.S.)
Geology	Geology		Master of Science (M.S.)
Guidance and Personnel Services	Guidance and Personnel Services	(1) Elementary School Counseling and Guidance	Master of Education (M.Ed.)
		(2) Secondary School Counseling and Guidance	
		(3) General Counseling and Guidance	Master of Science (M.S.)
	Personnel Services	(1) Counseling and Guidance (2) Student Personnel Services	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
Health, Physical Education and Recreation	Health, Physical Education and Recreation	(1) Health	Master of Education (M.Ed.) Master of Science (M.S.)
		(2) Physical Education	Master of Education (M.Ed.)
		(3) Recreation	Master of Science (M.S.)
History	History		Master of Arts (M.A.) Doctor of Philosophy (Ph.D.)
Interdepartmental Programs	Natural Science		Master of Science (M.S.)
	Mathematical Sciences		Master of Science (M.S.)
	Industrial Systems Analysis		Master of Science (M.S.)
	Individual Studies	(by contract)	Master of Arts (M.A.) Master of Science (M.S.)
Library Service	Library Service		Master of Education (M.Ed.) Master of Science (M.S.)
Management	Management		Master of Science (M.S.)
	Business Administration	Management	Master of Business Administration (M.B.A.)
Marketing	Marketing		Master of Science (M.S.)
	Business Administration	Marketing	Master of Business Administration (M.B.A.)
Mathematical Sciences	Mathematics	(1) General Mathematics (2) Statistics (3) Computer Sciences	Master of Science (M.S.)
		(1) College Teaching (2) Applied Statistics	Doctor of Philosophy (Ph.D.)
Mechanical Engineering	Mechanical Engineering	(1) Design and Manufacturing (2) Energy Systems (3) Fluid Power Systems (4) Mechanical Systems (5) Aerospace Propulsion	Master of Science (M.S.)
Music	Music	(1) Applied Music (a) Composition (b) Piano (c) Vocal Pedagogy (d) Vocal Performance (e) Organ (f) Strings Pedagogy	Master of Music (M.Mu.)

GRADUATE ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major (Possible)	Degree Offered
Music (continued)	Music (continued)	(g) Strings Performance (h) Brasses (i) Winds (j) Percussion (2) Sacred Music (3) Music Theory (4) Music History (5) Opera and Conducting (6) Opera Production and Directing	Master of Music (M.Mu.) (continued)
		(7) Musical Arts: Music History (8) Musical Arts: Applied Music (9) Musical Arts: Ethnic Music (South-Central Region)	Master of Arts (M.A.)
	Music Education		Master of Education (M.Ed.)
	Musical Arts	(1) Composition (2) Musicology: Regional Studies (3) Music Education (4) Performance (5) Sacred Music	Doctor of Musical Arts (D.M.A.)
Office Administration	Business Education and Office Management	(1) Business Education	Master of Education (M.Ed.) Master of Science (M.S.)
Philosophy	Philosophy		Master of Arts (M.A.)
Physics	Physics		Master of Science (M.S.)
Planning	City and Regional Planning	(1) Developmental Planning (2) Comprehensive Physical Planning (3) Natural and Environmental Resources Planning	Master of City and Regional Planning (M.C.R.P.)
Political Science	Political Science		Master of Arts (M.A.)
	Public Administration	(1) Urban Management and Planning (2) Comparative and Development Administration (3) General (4) Health Services Administration (5) Public Policy Analysis/ Program Evaluation	Master in Public Administration (M.P.A.)
Psychology	Psychology	(1) General Psychology	Master of Science (M.S.)
		(2) Psychological Services	Master of Arts (M.A.)
	School Psychology		Master of Arts (M.A.)
	Psychology	(1) Clinical Psychology (a) Neuropsychology (b) Behavior Management (2) Experimental Psychology (a) Biopsychology (b) Learning Behavior Analysis (c) Sensory Processes (d) Neuropsychology (e) Behavior Management (f) Human Developmental Retardation (g) Industrial Psychology (h) Personality-Cognitive Processes (i) Social Psychology	Doctor of Philosophy (Ph.D.)
Sociology and Social Work	Sociology		Master of Arts (M.A.)
Special Education and Rehabilitation	Special Education and Rehabilitation	(1) Educationally Handicapping Conditions (2) Pre-School Education of Exceptional Children (3) Multihandicapped	Master of Education (M.Ed.)
		(4) Vocational Rehabilitation	Master of Science (M.S.)
Speech and Drama	Speech and Drama	(1) Radio-TV-Film (2) Rhetoric and Communication Arts (3) Theatre and Oral Interpretation	Master of Arts (M.A.)
	Theatre		Master of Fine Arts (M.F.A.)

THE SCHOOL OF LAW

NICHOLAS L. WHITE, J.D.

Dean

Room 209, Law School Building

Program

The School of Law offers a program of instruction leading to the degree of Juris Doctor. A student may enroll in a

regular program, attending classes during the day, or in an extended program, attending classes in the evening. A student in the regular program may graduate in three academic years. A student in the extended program may graduate in four academic years plus work in summer sessions. A student regularly employed more than 15 hours per week may not pursue the regular

program.

The successful completion of 90 semester hours work, including all required courses, with the prescribed grade average is necessary for graduation. The last 28 semester hours must be taken in this school.

Admission

Admission to The School of Law is on

a selective basis. To be eligible for admission, a student must have received a bachelor's degree in an appropriate discipline from an accredited college or university and must have made a satisfactory score on the Law School Admission Test administered by the Educational Testing Service, Princeton, New Jersey. One hundred credit hours of course work leading to the undergraduate degree must have been earned in theory courses approved by

The School of Law. Questions concerning which course credits are acceptable and additional admissions requirements should be directed to the Dean of The School of Law or the Associate Dean of Admissions.

Admission to advanced standing may be given to a student who qualifies for admission, and who is eligible for re-enrollment in the law school in which his previous work has been taken, provided that such school is on the

approved list of the American Bar Association.

The regulations and policies of The School of Law are set out in greater detail in a separate bulletin. Applications for admission must be made on forms supplied by The School of Law. Inquiries should be addressed to the Dean of The School of Law or to the Associate Dean of Admissions in the office of Admissions and Records.



ADMISSION TO THE UNIVERSITY

Memphis State University offers equal educational opportunity to all persons without regard to race, religion, sex, creed, color or national origin. Inquiries about admission to any college of the University should be addressed to the Office of Admissions. This office receives and processes all applications, evaluates credentials, and issues notices of acceptance to qualified students. Undergraduate students may enter at the beginning of either of the regular semesters or at the beginning of the three terms of the summer session. Nursing students may enter only at the beginning of the fall semester.

The deadline for submitting regular undergraduate applications for admission is thirty days prior to the beginning of registration for the intended term of entry. All applications must be accompanied by a five-dollar (\$5.00) application fee.

Certain instructional programs of the University are subject to special admissions requirements which are in addition to the general admission requirements. These programs, which are indicated below, necessitate special admissions requirements and are subject to change due to the availability of institutional resources. Students wishing to enter one of these programs of study should check with the appropriate department or division offering the program in order to become familiar with these special requirements.

Students interested in professional degrees in art, music, or theatre (Bachelor of Fine Arts or Bachelor of Music) should confer with the appropriate department chairman about requirements concerning auditions, interviews, and submission of portfolios. There are also special requirements for admission to the program for teacher certification and the Department of Nursing. Students who believe that their interests will be best served by a program which emphasizes personally designed education through contract degrees should confer with the staff of the University College about its degree programs. Admission requirements are described on page 87.

Concurrent Enrollment

Outstanding high school students who have completed the junior year may be admitted and register for one college course per term of enrollment concurrently during their senior year provided the following criteria are met:

1. The applicant must be at least 16

years of age before the end of the calendar year in which the applicant desires to enroll.

2. A minimum high school cumulative grade point average of 3.00 on a 4.00 scale.
3. An above average score on the examination administered by the American College Testing Program.
4. A recommendation from the applicant's high school principal or guidance counselor.
5. Any other admission criteria established by the department which offers the course selected by the applicant.

Admission of Freshmen

The deadline for submitting applications for admission is 30 days prior to the beginning of registration for the intended term of entry.

An applicant may qualify for admission as a freshman by meeting the following requirements:

1. High School Graduation

- a. By a transcript of credits showing graduation from an approved or an accredited high school. Graduates of an unapproved or non-accredited high school must earn the minimum unconditional score on the A.C.T. examination. Students who do not present one unit of American History are required to register for the course during their first or second year at the University.
- b. Graduates of high schools outside of Tennessee must rank in the upper one-half of their graduating class or reside within a 150-mile radius of the University. Exceptions may be made only if the student has above average entrance examination scores and there are other factors which indicate that the applicant will be capable of doing satisfactory academic work.
- c. By high school equivalency diploma—Applicants 18 years of age or older may be admitted by the equivalency diploma provided it is issued upon a minimum average G.E.D. test score of 45.
- d. By General Educational Development Test—Applicants 18 years of age or older who are not high school graduates may be admitted by G.E.D. scores averaging 45 or more. Under special circumstances, applicants 17 years of age may be considered for admission with a minimum average G.E.D. score of 45.

2. Entrance Examination

In order to receive consideration for admission as a freshman, applicants

must submit scores earned on the test administered by the American College Testing Program. These scores should be furnished directly from A.C.T. Applicants who are not recent high school graduates may request an entrance examination administered by the Office of Admissions.

3. Age

An applicant must be at least 16 years of age.

4. Character

The applicant must submit evidence of good moral character (usually the recommendation of the high school principal). All applicants must have honorable dismissal from the last high school attended.

5. Health

Each student is required as a condition of admission to file with the Health Center a medical history on a health record card provided by the University. The purpose of this requirement is to detect and eliminate health hazards and to assess the students ability to adapt to living conditions of the University community. The health record card should be submitted to the University Health Service well in advance of the intended term of entry. Submitting the card early may enable the student to avoid a delay in his admission should the information on the card indicate a need for additional evaluation by the University Health Service or Counseling Center.

The applicant is advised to have all credentials on file well in advance (preferably thirty days) of the registration period for the term for which application is made. *All credentials become the property of the University and cannot be forwarded or returned.*

Credentials will be maintained in active files for a 12 month period. After this period, credentials will be relegated to inactive status and must be submitted again before an admissions decision can be made.

ADMISSION OF TRANSFER STUDENTS AS REGULAR UNDERGRADUATES

The deadline for submitting applications for admission is 30 days prior to the beginning of registration for the intended term of entry.

Admission will be granted only to a student who has honorable dismissal from an accredited institution and whose cumulative quality point average meets the following minimum standards on a scale in which a grade of

"A" gives four quality points:

- With two semesters in residence—A quality point average of 1.5000.
- With four semesters in residence—A quality point average of 1.8000.
- With six semesters in residence—A quality point average of 1.9000.
- With more than six semesters in residence—A quality point average of 2.000.

For part-time students, fifteen semester hours will be the equivalent of one semester. A transfer applicant with less than two semesters in full-time residence (or less than 30 semester hours of part-time work) must meet the admission requirements of beginning freshmen in addition to having a satisfactory college record.

In order to receive consideration for admission as a transfer student, an applicant must submit scores earned on the American College Test or the Scholastic Aptitude Test, or an examination administered by the Office of Admissions. The examination requirement may be waived for an applicant who meets the above minimum standards. (This work must have been completed in a program containing courses normally creditable toward a baccalaureate degree.) Transfer applicants not meeting the minimum quality point average requirements must submit acceptable S.A.T. or A.C.T. scores or take an examination administered by the Office of Admissions and earn an acceptable score.

A transfer student who is denied admission because he is not entitled to continue at another institution or because he does not meet the minimum quality point average requirement may have his application reconsidered after an appropriate period of time has elapsed. Consideration will not be given until the next regularly scheduled term.

A transfer student who is accepted for admission after an appropriate period of time has elapsed who does not have a quality point average of 1.5000 in his last term of enrollment, or whose cumulative quality point average does not meet the minimum standard, or who is not in good academic standing at the last school attended, will be entered on academic probation.

A transfer student who has failed his work at another institution and is not entitled to continue there will not be admitted to the University except under unusual circumstances.

An applicant who has attended any accredited or approved institution of

higher learning will not be permitted to enroll as a beginning freshman.

ADMISSION OF INTERNATIONAL STUDENTS

Memphis State University is authorized under Federal law to enroll non-immigrant, alien students on "F-1" student visas. Applications and all supporting documents must be received in the Admissions Office at least 120 days prior to the beginning of registration for the intended term of entry.

Memphis State University believes that the presence of a balanced representation of International students on campus will deepen its commitment to enrich the educational environment of all students.

International applicants should write to the Office of Admissions for information on application procedures, qualifications, and admission to the University. Since there is considerable variation among educational systems throughout the world, international applicants will be selected on a competitive basis, after meeting the minimum standards for admission using examination scores, grade point average, relevance of academic background to intended major field of study and recommendations from the World Survey of Education. The University often receives more applications than can be accommodated; therefore, admission cannot be granted to all applicants who meet only the minimum requirements.

Since the enrollment of International students is based on a global sampling and representation, priority will be given to applicants with exceptional credentials who will be attending a university in the United States for the first time.

All transcripts, test scores, and other credentials must be accompanied by an official English translation of these documents and must be on file in the International Student Office at least four months prior to the beginning of registration for the intended term of entry.

Requirements

1. All International applicants whose native tongue is not English are required to take the Test of English as a Foreign Language (T.O.E.F.L.) or its equivalent. The student should write T.O.E.F.L., Educational Testing Service, Princeton, New Jersey 08550, U.S.A., requesting information and registration forms. In addition, all freshmen international students should also take the Scho-

lastic Aptitude Test (S.A.T.) or its equivalent. The student should write S.A.T., C.E.E.B., Educational Testing Service, Box 592, Princeton, New Jersey 08540, U.S.A., for examination information. Satisfactory scores on both the S.A.T. and the T.O.E.F.L., or their equivalent, are required for admission.

2. A student on an F-1 visa should supply, on the form provided by Memphis State University, sufficient evidence of financial support for himself and for all members of his family who will accompany him to Memphis. This requires that he certify that his intent is to attend the University full-time and that no employment will be required.
3. An International applicant must be in good physical health as certified by a licensed physician on the form provided by the University.
4. All international students must purchase health insurance before they are allowed to register unless they have already done so.
5. All International applicants who are accepted must take an English placement examination, administered by the English Department, prior to enrollment. Placement in an English class will be determined by the results of this examination. *International students should arrange to be on campus approximately one week prior to registration for the proposed term of entry.*
6. International students will not normally be allowed to register as transient students during summer sessions. Exceptions may be granted only in cases where a student has an outstanding record and unusual circumstances are present.
7. The International student must become familiar with the regulations of the Immigrations and Naturalization Service and assume responsibility for complying with these regulations.

SPECIAL CATEGORY STUDENTS

1. **Special Undergraduate Students**—A graduate of an accredited institution who desires to take only a limited number of undergraduate courses and who indicates that he is not presently working toward a degree at Memphis State University may be admitted as a Special Undergraduate Student, subject to the following provisions:

He must have the college or university from which he was graduated

send to the Office of Admissions a statement indicating the degree earned and the date it was awarded. (Note: If the student later decides to become a permanent transfer student and work toward another degree, transcripts of all college work will have to be submitted.)

2. Unclassified Students—The student who wishes to enter the university and earn a limited amount of regular college credit may do so by applying for admission as an *unclassified* student and meeting one of the two conditions listed below:

- a. A student currently/previously enrolled in an accredited college or university must submit evidence of eligibility to re-enroll. Clearance will be for one term only. Subsequent enrollment will require an application for readmission. (Students who have already earned a baccalaureate degree from an accredited college or university must apply as a *special undergraduate* student.)
- b. A student who has not attended another college or university must have high school graduation or the equivalent or be 18 years of age or older. Subsequent enrollment will require an application for readmission.

Those who are admitted as *unclassified* students are assigned to the General Advising Center. Students in this category may not take more than 18 semester hours of work in a single term nor may they earn more than 18 semester hours total unless they have enrolled as a regular student in another college since last attending Memphis State. The unclassified student may, at any time within the stated deadlines, apply to the Office of Admissions for reclassification as a regular student, effective at the beginning of the next regular semester. Admission procedure and requirements are the same as those for regular undergraduate applicants. After the student is admitted as a regular undergraduate, any credit that he may have earned as an unclassified student will apply toward specific degree programs as outlined in the section of the *Bulletin* for the college from which a degree is sought.

NOTE: Transient students should apply in the unclassified category.

3. Audit Students—Persons who are not enrolled for credit courses may register for audit courses with the approval of the Dean of Admissions and Records and the appropriate department chairman. These students must

have the equivalent of high school graduation or be 18 years of age or older.

4. Senior Citizen Audit Students—Persons over age 60 who are not enrolled for credit courses may audit courses on a space available basis. These students may attend classes at no maintenance charge. However, special or laboratory fees may be charged where required. Approval to audit the course must be secured from the appropriate department chairman.

5. Former Students—Former students who wish to return to the University in the same category as they previously attended must file an application for readmission. This form should be secured, completed, and returned to the Records Office. If the student has enrolled at another college since last attending Memphis State University, he must have a transcript and a Personnel Evaluation Form forwarded to the Admissions Office. An applicant will receive favorable consideration only if he is eligible for readmission under all University regulations, including the quality point average for transfer students.

MISCELLANEOUS INFORMATION

1. Advanced Standing Credit—Credit toward a degree will be accepted only from collegiate level institutions for courses which are equivalent to those offered at Memphis State University. After the student has been approved for admission, the Transfer Affairs Section of the Office of Admissions will evaluate the transcript of each transfer student to show the credits accepted by the University.

All credits are transferred at their original grade. If the quality point average on such transferred credits is less than "C," the cumulative quality point average must be brought up to a "C" by higher grades at Memphis State University before the student can qualify for graduation. (See page 38 for the method of computing quality point averages.) Every student must qualify for graduation on the basis of every course attempted at Memphis State University and elsewhere. In no case may transferred grades be used to raise the student's quality point average on courses taken at Memphis State University. His overall average on all courses must be "C" (2.000) or better.

In computing the scholarship ratio or quality point average of a student who

has earned an associate degree from an institution with a grading practice which does not reflect failing grades, only those courses for which credit was granted will be used. A student who does not earn the associate degree prior to transfer or one who attends merely to take courses will have his quality point average computed using all courses attempted at that institution.

A student submitting advanced standing credit from an unaccredited institution will be given consideration. Each case will be considered individually, and credit may be accepted tentatively. In no case will credit be recorded until it has been validated by satisfactory work at Memphis State University for one or more semesters.

A student transferring credits from a two-year collegiate institution must complete, as a requirement for the baccalaureate degree, a minimum of sixty semester hours in an accredited senior institution. Residency and other degree requirements of Memphis State University must be met.

Transfer credit from vocational colleges not accredited by the Tennessee State Board of Education and/or the Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will not be accepted toward a degree or toward teacher certification.

In the case of students enrolled in the University College, credit may also be granted for experiential learning, that is, learning obtained from sources other than academic institutions and evaluated as college level.

2. College Level Examination Program (C.L.E.P.)—Credit may be obtained, in certain instances, from the tests administered by the College Level Examination Program. Students interested in this credit should contact the General Advising Center or Dean for Evening Academic Services for specific information.

3. Credit for Service in the Armed Forces—Veterans who have completed one year or more of full-time extended active military service will be excused from taking the required physical education activity courses. In addition, they will be allowed six semester hours of health and physical education credit upon presentation of a copy of their report of separation (DD Form 214) to the Admissions Office. The veteran may apply two additional semester hours credit in physical education ac-

tivity courses (total applicable toward degrees not to exceed eight semester hours).

The Transfer Affairs Section of the Admissions Office should be consulted to determine whether additional credit may be allowed or courses offered through the United States Armed Forces Institute or other service schools. The maximum amount of credit accepted for applicable U.S.A.F.I. courses and/or correspondence and extension courses is 33 semester hours, and 20 semester hours for selected service schools. (This restriction does not apply to credit accepted by the University College.) An official evaluation of service credit is not made until a student enrolls as a regular undergraduate student. Credit awarded for completion of selected service schools will be governed by the recommendations outlined in the current *Guide to the Evaluation of Educational Experience in the Armed Services*.

4. Noncollegiate Sponsored Instruction—Credit may be obtained for applicable courses completed through certain noncollegiate sponsored instruction as recommended in the current *A Guide*

to Educational Programs in Noncollegiate Organizations. No more than 20 semester hours credit for service schools and/or noncollegiate sponsored programs will be allowed. The Transfer Affairs section of the Admissions Office should be contacted for further information.

5. Residency Classification—All determinations concerning the classification of students as in-state or out-of-state for fee-paying and other purposes are made in the Office of Admissions and Records. The determinations are based on the regulations and guidelines of the State Board of Regents. Copies of the guidelines and regulations used in the classification of students for fee-paying purposes are available in the Office of the Admissions Advisor for Residency. If, for any reason, there is a question about a student's residency classification for fee-paying purposes, it is his or her responsibility to check with the Admissions Advisor for Residency.

6. Annual Notice to Students—Annually, Memphis State University informs students of the Family Educational Rights and Privacy Act of 1974. This

Act, with which the institution intends to comply fully, was designated to protect the privacy of educational records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with The Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the Act.

Local policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the following offices: Associate Dean of Admissions and Records (Records); Dean of Admissions and Records; University Counsel. The offices mentioned also maintain a Directory of Records which lists all education records maintained on students by this institution.

Questions concerning the Family Education Rights and Privacy Act may be referred to the office of the Associate Dean of Admissions and Records (Records).



EXPENSES AT UNIVERSITY

The matter of expenses while attending the University is of importance to every student. It is difficult, however, to give specific information about yearly expenditures; expenses vary according to the nature of the curriculum, the place of residence (whether in Tennessee or in another state or country), and the student's own habits and needs. In any student body there are so many different tastes, as well as such a wide range of financial resources, that each student must determine his budget in keeping with his own needs and financial condition. It is possible to live simply, and to participate moderately in the life of the student community, on a modest budget. The best help the University authorities can offer the student in planning his budget is to inform him of certain definite expense items and to acquaint him with others for which he will in all probability have to provide.

The information in this section concerning tuition, fees, deposits, etc., is applicable only to students enrolled in the undergraduate colleges and departments of the University. Similar information for students in The Graduate School and The School of Law is available in the bulletins of those schools.

The listing of any fee or incidental charge in this catalog does not constitute a contract between the University and the student. Because of rapidly changing conditions it may become necessary to alter a fee structure before the next edition of the *Bulletin* is published. As a condition of registration each student will pay the fees in effect at the time he registers.

Application Fee

Each student submitting an application for admission to the University must pay, at the time he submits his first application, a one-time non-returnable fee of \$5.00.

Maintenance Fee

All students, whether resident or non-resident, pay a maintenance fee of \$20.00 per semester hour, not to exceed a maximum of \$224.00. Students paying the maximum fee are entitled to admission to home athletic events and certain health services, concerts, plays, social and other student-sponsored activities, and a subscription to *The Helmsman*, student newspaper.

Tuition

No charge is made for tuition to bona fide residents of the State of Tennessee; non-residents are charged \$468.00

per semester (for full-time students) or \$39.00 per semester hour (for part-time students). Tuition is in addition to the maintenance fee.

The Office of Admissions and Records is charged with the responsibility of assigning a residency classification to each student using regulations provided by the Board of Regents. The student may appeal the decision to the Committee on Residency. Residency regulations of the Board of Regents and information on appeals procedures are available in the Office of Admissions and Records.

Fees for audits will be assessed on the same basis as fees for credit courses.

The Summer Session

The Summer Session consists of two separate terms of approximately six weeks each, plus an extended term for specified courses. Fees for the Summer Session are determined solely on a semester hour basis. The semester hour charge is \$20.00 for maintenance fees and an additional \$39.00 for non-resident tuition.

University College Fees

In addition to their \$5.00 application fee, students who apply to the University College must pay a screening fee of \$15.00, which is non-refundable. If accepted into the University College, the student must pay a non-refundable contract-advising fee of \$25.00.

Students who apply for credit for experiential learning will pay \$15.00 per credit hour granted after evaluation of their learning and assignment of credit. For those students who are enrolled under a group contract, no more than a maximum fee of \$90.00 will be assessed for credits assigned under the terms of the group contract.

Courses in Applied Music

The fee for applied music shall be \$25.00 per semester for each one-half hour lesson.

Refund of Fees

FALL AND SPRING SEMESTERS: If a student withdraws from the University within fourteen days from the beginning of classes for the fall and spring terms, a refund will be made of 75% of his maintenance fee and tuition or music fee (if any). The same refund schedule applies to students who drop to an hourly load below full-time. The applicable percentage then applies to the difference between the new fees calculated on an hourly basis and actual fees paid. *All other fees are non-refundable.*

SUMMER: Students are requested to register for all three terms of The Summer Session at the beginning of the first term, if possible. If a student withdraws from the University within six days from the beginning of classes for the first term, a refund is made of 75% of the maintenance fee and tuition or music fee (if any) applicable to first term classes. If a student withdraws from second term classes anytime before second term classes begin, a full refund of maintenance fee and tuition or music fee (if any) applicable to the second term will be made. This refund will be reduced to 75% if the student withdraws within six days after beginning of classes for the second term.

Withdrawals or drops from extended term courses will be refunded on the basis of 75% during the first eight days instead of six, as in the six-week term.

A full (100%) refund of fees will be made only under the following conditions:

- Cancellation of a class by the University.
- Drop or withdrawal prior to official registration. (Example: Pre-registration of a first-time freshman.)
- Death of a student certified by the Vice President for Student Educational Services.

Residence Halls

Charges for rooms in University residence halls are indicated below. For information concerning application for rooms, see page 36.

Residence Halls	Per Semester	Per Six Week Summer Term	Per Five Week Sum. Term	Per Eleven Week Ext. Sum. Term
Browning Hall†	\$200	75	63	138
Browning Hall‡	275	103	86	189
Hayden Hall‡	200	75	63	138
Hayden Hall†	275	103	86	189
McCord Hall‡	200	75	63	138
McCord Hall†	275	103	86	189
•Rawls Hall‡	245	92	77	169
•Rawls Hall†	330	124	103	227
•Richardson Towers‡	300	113	94	207
•Richardson Towers†	390	146	122	268
•Robison Hall‡	245	92	77	169
•Robison Hall†	330	124	103	227
•Newport‡	300	113	94	207
•Newport†	390	146	122	268
Smith Hall‡	215	83	69	152
Smith Hall†	295	111	92	203
West Hall‡	215	83	69	152
West Hall†	295	111	92	203

(All room charges are subject to change without notice.)

(All rates include telephone and post office box, but *not* long distance telephone bills.)

‡ double room, † single room

• Air Conditioned

The following policy covers residence hall contracts, deposits, and rental fees:

1. All residence hall contracts are for the academic year or for the entire summer session.

2. Each application for residence hall accommodations must be accompanied by a deposit of \$50.00. This deposit shall remain on file with the University throughout the occupancy of housing facilities, and is reduced by the amount of any unpaid damages or any other financial obligation due to the University at the time residence hall space is vacated.

3. An initial residence hall reservation request must be confirmed by a properly negotiated contract with deposit.

4. Students who wish to retain their room and hall priority for subsequent semesters must notify the housing office in writing by July 1 for the fall semester, by December 1 for the spring semester, and by May 1, for summer sessions.

5. A housing contract can be cancelled and a refund of the \$50.00 deposit made only if the Housing Office receives a signed cancellation request on or before:

July 1 for contracts effective for the fall semester

December 1 for contracts effective for the spring semester

May 1 for contracts effective for the summer session or any portion thereof.

After these dates full refund of the \$50.00 deposit will be made only for the following reasons:

A. A student is denied admittance or readmittance to the University.

B. A student is prevented from entering the University because of medical reasons, such reasons confirmed in writing by a licensed physician or the University Health Service.

C. Residence Hall space is not available.

Students failing to cancel their contracts by the dates listed in paragraph 5 above or for the reasons specified in (A), (B), or (C) will receive a refund of \$30.00.

Students who fail to claim an as-

signed room or who fail to notify the Housing Office in writing of their intention to cancel by the announced ending of a check-in period will automatically forfeit the \$50.00 deposit regardless of the reason such assignment was unclaimed.

6. A full refund of prepaid rent will be made if a room assignment is cancelled prior to the official close of a check-in period, and if the room has not been claimed.

Fall and Spring Semesters: If a student withdraws from residence within seven calendar days from the beginning of classes for the Fall or Spring term, a refund will be made of 80% of his rent. Each calendar week thereafter, the amount will be reduced by 20%.

Summer Session: If a student withdraws from residence within three calendar days from the beginning of classes for the first term, a refund will be made of 80% of the rent applicable to the first term of residence. Each three calendar days thereafter, the amount of refund will be reduced by 20%. If rent for the second term has been prepaid and the student withdraws from residence anytime before second term classes begin, a full refund of rent applicable to the second term will be made. This refund will be reduced to 80% if the student withdraws within three calendar days after the beginning of classes for the second term, and will be reduced an additional 20% each three calendar days thereafter.

Pre-Summer Session: If a student withdraws from residence within one day from the beginning of classes for the pre-summer term, a refund will be made of 80% of his rent. Each day thereafter, the amount will be reduced by 20%.

Notice of withdrawal from residence must be made in writing to the Director of Residence Life. Refunds will be computed as of the date such notice is received in the Office of Residence Life, and withdrawal is confirmed by a staff member of the hall in which the student resided.

Married Housing

The University has 126 apartments for married students located on South Campus approximately one mile from the central part of the campus. These are 70 two-bedroom and 56 one-bedroom apartments. Some apartments are built specifically for paraplegic students. All apartments are furnished

with electric stove, refrigerator, carpeting and garbage disposers.

The monthly rental rates are: one bedroom apartment—\$120.00; two bedroom apartment—\$145.00. Electrical utilities are paid by tenant.

Application forms may be obtained from the University Housing Office in Room 105, Scates Hall, Main Campus. A \$5.00 application fee is required when the application is submitted. A \$50.00 deposit is required upon acceptance of assigned apartment.

Meals

The University cafeterias, student centers, and vending areas, open to all students, provide wholesome food at reasonable prices. Cost of meals per student is estimated at \$4.00 to \$4.75 per day.

Air Force ROTC Deposit

A uniform deposit of \$10.00 and a \$5.00 activity fee are required of each student who enrolls in the Air Force ROTC program. The uniform deposit, less charges for uniform loss or damage, will be refunded at the end of the academic year or at the beginning of a semester in which the student is not enrolled in the ROTC program.

Laboratory Deposits

Certain courses in chemistry require breakage deposits from \$7.50 to \$15.00 per semester, depending upon the course. Any unused portion of these deposits will be refunded.

Physical Education Locker and Towel Fee

Students enrolled in physical education courses must pay a fee of \$3.50 for the locker and towel issued them. Students must provide their own lock.

Late Registration

Students who do not complete registration (including the payment of fees) during the official registration period will be charged \$10.00 for any late registration following the official registration period.

Adding and Dropping Courses

A fee of \$5.00 will be charged for each change of course form processed, regardless of the number of course or section changes included on the form.

Transcripts

There is no fee for transcripts. However, the student will be charged \$1.00 for each official transcript over the maximum of five (5) per request. Transcripts are issued only at the request of the student in person or by letter.

No transcript will be provided for a student who has any unfulfilled obligation to the University.

Diploma Fee

Each candidate for a degree from Memphis State University pays a \$20.00 fee to cover cost of the diploma, rental of cap and gown, and incidentals connected with the commencement exercises. This fee must be paid thirty days before graduation.

Credit by Examination or Placement Examination

The fee for taking an examination for credit is \$15.00 minimum and an additional \$5.00 for each credit hour over three; this fee must be paid prior to the examination. The same fee must be paid when an application for credit is made under the Credit by Placement Examination policy.

Automobile Registration

Each person who expects to operate and park any motor vehicle on the campus must pay \$5.00 for an official permit, valid from September through August, and register the automobile in the security office (Room 151, Administration Building). Proof of ownership must be presented when registering the automobile. Residence hall occupants should ask for a special resident decal when registering their automobiles.

Identification Cards

The University issues to each student an identification card, which bears his photograph, social security number, and certification that he is enrolled as a student in the University. The card is

required for registration, the borrowing of library books, and other purposes. *The card remains the property of Memphis State University and will be surrendered upon request of a University official.* A student will be charged \$10.00 to replace a card that has been damaged, stolen, or lost. A student will be charged \$2.00 to make any change in data on his card.

Part-time students who are enrolled for at least six semester hours of credit courses will be given full-time I.D. card validation. (Also, see section on STUDENT LIFE AND FINANCIAL AID.)

Returned Checks

It is expected that a check given the University, for any reason, will clear the bank on which it is drawn. If a check is returned, the fee is assumed to be unpaid and charges for late payment will be assessed. A \$5.00 service charge will be assessed for each returned check given in payment of any fee except registration (maintenance and/or tuition), or cashed by the University for the convenience of the student. Check cashing privileges will be revoked for any student who has had checks returned by his bank more than once.

Music Locker Deposit

Music students are required to have a locker for storage of University-owned musical instruments or equipment. Personal instruments may also be stored in lockers. A deposit of \$3.00 for one semester or \$4.00 for two semesters is required on each locker issued. This deposit, less a service charge of \$1.50 per semester, will be refunded upon return of the lock. Students will be expected to pay for any damages.

SUMMARY OF EXPENSES

(This table is applicable only to students in the undergraduate colleges and departments; charges for The Graduate School and for The School of Law are detailed in the bulletins of those schools).

Fall and Spring Semesters

	Residents	Non-Residents
Per semester (full-time students)	\$224.00	\$692.00
Per semester hour (part-time student)	\$ 20.00	\$ 59.00

Student Housing

(See listing, page 26)

Applied Music Courses

(See page 26)

Incidental Charges

Adding or dropping courses, per form	\$ 5.00
Application for admission, first application	5.00
Automobile registration, per automobile	5.00
Diploma, payable once	20.00
Late registration	10.00
after official registration period	
Transcripts, per copy after first five copies per request	1.00
Air Force ROTC activity fee, per year	5.00
Audiovisual Lab (undergraduate), per semester	5.00
Audiovisual Lab (graduate), per semester	10.00
School and College Ability Test	5.00
Residual American College Test	8.00
Orientation Services (Pre-College Counseling)	10.00
P.E. Locker and Towel, per semester	3.50

Deposits

Air Force ROTC Uniform (refundable, less charges for loss or damage)	\$10.00
Dormitory rooms (refundable, less charges, upon termination of occupancy)	\$50.00
Laboratory breakage (refundable less charges)	Variable
Music Locker Deposit, per semester per year	\$ 3.00 \$ 4.00

Additional Charges

The University reserves the right to increase the charges listed herein or to add new ones whenever such increases or additions are found to be necessary.

Bulletin

Memphis State University



STUDENT DEVELOPMENT

The Department of Student Development, a component within the Division of Student Education Services, focuses attention on student goal clarification, implementation, and attainment. Five major areas within the department include: 1) Center for Student Development, 2) Health Services, 3) Student Aid, 4) Placement, and 5) Veterans Affairs. Counselors are available for career planning, academic advising, personal counseling, tutorial assistance, and special groups in leadership and other human relations activities. Specialized services are provided to assist students in resolving difficulties which may impede the learning process. Emphasis is placed on individualized responses to concerns identified during personal interviews.

The Center for Student Development

The Center for Student Development is a new facility providing personal, academic, and career resources for MSU students. By emphasizing developmentally oriented programming, the Center strives for maximum contact with the University community. The Center offers outreach programming, individual and group counseling, consultation and training for individuals and campus organizations. Assistance and counseling are available through the various Center components: academic counseling (formerly General Advising Center), career counseling, personal counseling (formerly University Counseling Center), testing center, and Educational Support Program.

Personal Counseling

Scates Hall, Room 111

The personal counseling component provides students with the opportunity to discuss and explore, in confidence, any concerns and feelings that are of importance. Staffed by professional psychologists and counselors, the personal counseling unit is committed to help students grow in self-understanding so that they may use their assets effectively and facilitate their moving toward meaningful future goals. The staff is professionally trained and experienced in working with a wide variety of student concerns through individual and group counseling, testing, programs and workshops, and referral to additional service centers on and off campus.

Academic Counseling

*(Formerly General Advising Center)
Scates Hall, Room 107*

All new freshmen students admitted to Memphis State University and new transfer and readmitted students with an academic major are assigned to an academic counselor. The purpose is to provide academic counseling which will prepare students for enrollment in one of the degree-granting colleges once they have chosen an academic major. The counselor is available to discuss with the student the many academic programs offered by Memphis State University and to acquaint him with the requirements of the various programs.

The academic counseling unit of the Center for Student Development provides an atmosphere in which a student can freely explore educational goals with the assistance of a full-time counselor who can provide information and referral for faculty assistance, career counseling, vocational testing, and help with any personal problems related to academic success and campus adjustment.

Career Counseling

Scates Hall, Room 104

Career counseling affords students an opportunity to explore career options, obtain information relating academic majors to career choices, evaluate employment outlook information, match education to careers, reinforce decision-making skills and develop realistic career goals. Career planning assistance and programs are available to individuals and special interest groups.

The Testing Center

Scates Hall, Room 103

The testing center provides testing services for University and professional school admissions purposes. A variety of tests including the ACT Test, Miller Analogies Test, Graduate Record Exam, Law School Admissions Test, and Graduate School Foreign Language Test are administered under the auspices of the testing center.

Educational Support Programs

Dunn Building, Room 143

The Educational Support Programs provide assistance to students in developing and improving the skills necessary for a successful academic experience. In addition to tutorial programs in reading, English composition, mathematics, foreign language, and study skills, counseling is also available for persons wishing to discuss educational and personal concerns.

Health Service

The University maintains, on the main campus, adequate health service which is staffed by qualified doctors of medicine and registered nurses, offering out-patient treatment only. Students are financially responsible for hospitalization or medical care beyond that offered by the Health Service. Students are urged to make arrangements for such care, in consultation with the Health Center staff.

Health Service Record

Each undergraduate student is required, as a condition of admission to the University, to file with the Health Center a medical history. The required health service record form is provided by the Admissions Office to each applicant for admission.

Eligibility

All full-time undergraduate students of the University are eligible to receive services provided by the Health Center. Graduate, law, and part-time students who have filed with the Health Center the required Health Service forms and who have validated identification cards are eligible to receive services. No services are offered to faculty and staff except on an emergency basis, i.e., en route to see a physician or to the hospital.

Emergency Service

Emergency service will be afforded in the event of any campus related emergency situation. Except in cases of emergency, students without a health form on file in the Health Center will not be treated.

Student Insurance

Since major care is occasionally needed on emergency basis and on short notice, students are urged to discuss this eventuality with their parents. Health and Accident Insurance is issued by a private insurance company authorized and approved by the University. Details concerning this insurance are available at the time of registration and from the office of the Assistant Dean of Students.

Student Aid Office

The University Student Financial Aid Office, located in Scates Hall, provides financial assistance for students in the form of scholarships and grants, loans and student employment. This office counsels with students about college expenses and financial aid opportunities.

In addition to the University financial aid application, all applicants for finan-

cial assistance must submit the American College Testing Program Family Financial Statement. All students must apply for the Basic Educational Opportunity Grant Program. All forms may be obtained through the Student Aid Office upon request. The ACT Family Financial Statement is also available in most high school guidance offices.

The preferred application deadline for all applications is April 1. Applications are acknowledged as they are received, and award notices are mailed around July 1. All awards are made on an academic year basis. All students must submit a new application each year.

All inquiries concerning financial aid should be addressed to the Director of Student Aid unless some other procedure is specifically indicated in the following description of scholarships and loans. A detailed listing of all policies, rules, regulations, selection process, and other information pertaining to governance of student aid programs is available in the Student Aid Office.

SCHOLARSHIPS

The University awards several hundred scholarships each year in varying amounts from \$50 to \$700. Most scholarships awarded cover the amount of registration fees, but the stipend is determined by the student's need for financial assistance. Scholastic achievement, personal and leadership qualities and need are the factors utilized in evaluating applicants and determining the value of the scholarship offered.

Scholarships are awarded for the academic year and are not available for summer school. Freshmen applying for scholarships must rank in the top twenty-five percent of their high school graduating classes. Currently enrolled students must have at least a 2.5 overall grade point average. Scholarships are awarded on an academic year basis. Each student wishing scholarship consideration must submit an application each academic year. Information on special scholarships may be obtained from the Student Aid Office.

State Board of Regents Scholarship

The Board of Regents Scholarship is for Tennessee residents with a 2.8 G.P.A. or higher. Freshmen applying for the scholarship must rank in the upper quartile of their graduating class. The scholarship covers mandatory fees, and there is a service or work requirement for recipients.

Honors Scholarship Program

In order to provide recognition and fi-

nancial assistance to outstanding students desiring to attend Memphis State University, an Honors Scholarship Program is available. A limited number of scholarships are awarded annually in the amount of \$500 each for the academic year.

These scholarships are available to students who are currently high school seniors or who will be transfers from a community college. High school seniors must rank in the top five per cent of their high school graduating class and have a minimum ACT composite score of 26. Community college transfer students should have attained a 3.5 minimum grade average on previous college credit attempted. All applicants will be ranked by ACT scores, high school rank or college grade point average. The only other selection factors taken into consideration are scholastic and leadership qualities and activities.

Cecil C. Humphreys Presidential Scholars Program

Twelve \$800 four-year scholarships are awarded annually to entering freshmen of the highest academic attainment without regard to financial need. Scholars are selected on the basis of the following criteria:

1. An ACT score of 28 or higher, or the corresponding SAT score.
2. High school transcript.
3. Excellence of performance in an area of interest.
4. Quantity and quality of extra curricular and extra-mural activities.
5. Evidence of sound character, work habits, and attitude.

The scholarship program is funded by contributions to the Memphis State University Annual Fund from Alumni and other friends and by Athletic Department revenues. The scholarship program is named for Dr. Cecil C. Humphreys, President Emeritus of Memphis State University.

Special Scholarships

ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION (AFCEA) SCHOLARSHIP: AFCEA awards one \$500 scholarship annually to a sophomore AFROTC cadet for undergraduate college or university study in a course relating to AFCEA's sphere of interest (Electrical, Electronics or Communications Engineering; or technical photography). The winning cadet receives two checks for \$500 each—one for use in the junior year, one for use in the senior year. Inquiries should be directed to the Department of Aerospace Studies.

AFROTC COLLEGE SCHOLARSHIP PROGRAM: Scholarships covering full tuition, laboratory fees, incidental fees, reimbursement for textbooks and \$100 per month in nontaxable pay are available to those enrolled in the Aerospace Studies program. Such scholarships may be awarded for two, three, or four years and must

be applied for during the school year preceding their activation. Four-year scholarships are available only to those qualified to enter the flying training. Eligible students apply to Air Force ROTC (SDS), Maxwell AFB, AL 36112, not later than 15 December of their senior year in high school. Applications for other scholarships (2nd and 3rd year) are handled through the Department of Aerospace Studies and must be submitted by Spring Commencement of the preceding year.

ALPHA DELTA KAPPA, ALPHA CHAPTER, annually awards a \$200 scholarship to a student in the junior or senior year who is a resident of Shelby County and is preparing to enter the field of teaching.

ALPHA DELTA KAPPA, LAMBDA CHAPTER, annually awards a scholarship in the amount of \$250 to a student in the junior or senior year who is preparing to enter the field of teaching.

THE ASSOCIATED GENERAL CONTRACTORS OF MEMPHIS INDUSTRY ADVANCED FUND SCHOLARSHIP, established in 1973, provides a \$500 grant with preference given to a student majoring in Construction Engineering Technology at MSU.

THE ASSOCIATED GENERAL CONTRACTORS OF MIDDLE TENNESSEE CONSTRUCTION INDUSTRY ADVANCEMENT FUND SCHOLARSHIP was established in 1974. The \$500 grant is made to a student from the Middle Tennessee area majoring in Construction Engineering Technology and plans a career in that profession.

BAND SCHOLARSHIPS varying in amounts from \$50 to \$250 are awarded annually to University band students. Inquiries should be addressed to the Director of Bands.

THE ELEANOR B. O'NEILL SCHOLARSHIP FUND is provided by the T. W. Briggs Welcome Wagon Foundation. Two scholarships at \$500 each are awarded annually to students preparing for careers in advertising, public relations, or journalism. In addition to the current scholarships, the Foundation is in the process of endowing two scholarships to assist students in these career areas.

THE GENERAL UNIVERSITY SCHOLARSHIP FUND provides scholarships varying in amount and duration to outstanding high school graduates.

THE C. M. GOOCH SCHOLARSHIP FUND—This fund was established from proceeds of the estate of the late Mr. C. M. Gooch. The purpose of this fund is to provide grants to students who without such assistance would not be able to attend college. The maximum a student may expect to receive in a calendar year is \$300. The student must be in good academic standing and must show need for assistance as determined through application procedures of the Student Aid Office.

THE MEMPHIS STATE UNIVERSITY *HAIR* SCHOLARSHIP FUND was established in perpetuity by the authors of the Broadway musical *HAIR* in honor of the Memphis State University Theatre production of the show in 1970. Scholarships are awarded annually on the basis of financial need and promising talent to majors in Speech and Drama. Application should be made to the chairman of the Department of Speech and Drama.

THE A ARTHUR HALLE MEMORIAL SCHOLARSHIP FUND annually provides two scholarships of \$300 each to outstanding high school graduates for the freshman year only.

THE HERFF ENGINEERING SCHOLARSHIPS provided annually through the Herbert Herff Estate are available to beginning and currently enrolled students who have a demonstrated aptitude for engineering. Applications for these scholarships are submitted through the Herff College of Engineering.

HOME BUILDERS ASSOCIATION OF MEMPHIS —LADIES AUXILIARY OF MEMPHIS provides two scholarships at \$500 each per year. The recipients are selected by the Division of Engineering Technology with approval of such by Ladies Auxiliary. Applicants must be Technology students in need.

THE ED HUMPHREYS SCHOLARSHIP FUND annually provides scholarships in varying amounts to outstanding high school graduates.

THE W. F. JAMESON MEMORIAL SCHOLARSHIP is awarded annually to a freshman student in the Herff College of Engineering. The recipient of this scholarship must intend to pursue a career in construction engineering.

THE JOSEPHINE CIRCLE SCHOLARSHIP, in the amount of registration fees, is awarded annually. The award is made on the basis of scholastic record, personality, future plans of the applicant, and need.

THE ETHEL LEWIS SCHOLARSHIP is an award sponsored by the Girls Friday Association of Memphis State University. This award in the amount of the annual registration fee is available to a freshman or sophomore student majoring in office administration or preparing for a career as a business teacher.

THE VARIETY CLUB—ROBERT S. JOHNSON SCHOLARSHIP was endowed in 1974 to honor the late noted writer for the *Memphis Press Scimitar*. A \$500 scholarship is given to a junior or senior majoring in journalism and seeking a career in some phase of that profession. Both financial need and scholarship are factors in the selection of the recipient.

THE JOE A. MAGDOVITZ SCHOLARSHIP was established in 1974 to honor Joseph A. Magdovitz of Memphis. The \$500 scholarship is awarded to a student majoring in the College of Business Administration and who has financial need and scholastic ability and is a resident of Shelby County, Tennessee, or DeSoto County, Mississippi.

THE JAMES E. McGEHEE MORTGAGE COMPANY SCHOLARSHIP was endowed in 1966 by the McGehee Mortgage Company with a \$10,000 donation. Interest from the investment of these funds is used to award an annual scholarship to an outstanding high school graduate.

THE MIKE McGEE MEMORIAL SCHOLARSHIP FUND maintained by the Memphis Press Club provides one or more scholarships of \$250 each year. These scholarships are awarded to journalism majors of any class with a minimum grade average of 2.7 upon approval of the Memphis Press Club scholarship committee. Applications are submitted through the Department of Journalism.

THE MEMPHIS ADVERTISING FEDERATION provides an annual undergraduate assistantship for a student majoring in advertising either in the department of journalism or the department of marketing. This assistantship pays a monthly stipend of \$200 and the recipient is assigned to work with a professor in the department which makes the award. Applications are submitted to the respective departments.

THE MEMPHIS AMATEUR BOXING ASSOCIATION SCHOLARSHIP FUND provides two scholarships annually in the amount of \$500 each. Priority is given to full-time students who are members of this Association. The purpose of this scholarship is to encourage academic achievement, to foster an interest in amateur boxing in the Memphis area and to assist students who need help with educational expenses.

THE MEMPHIS HOUSEWARES CLUB provides an annual scholarship in the amount of registration fees to a student majoring in Marketing.

THE MEMPHIS LEGAL SECRETARIES ASSOCIATION SCHOLARSHIP FUND provides one scholarship annually in the amount of \$500 to a junior or senior student majoring in Office Administration or Secretarial Sciences and who intends to enter the Legal Secretary Profession. This scholarship is awarded on the basis of scholastic ability and financial need.

THE MEMPHIS STATE UNIVERSITY FACULTY-STAFF SCHOLARSHIP FUND was established in 1971 as an endowment program. Several scholarships are awarded annually on the basis of financial need and scholastic ability. The Fund is increased each year by gifts from MSU faculty and staff.

THE MEMPHIS STATE UNIVERSITY ANNUAL FUND each year provides a sum of money to be awarded to students with outstanding academic records. These scholarships vary in amounts from \$400 to \$700 with the actual stipend determined by the student's need for assistance and academic potential. The Fund is supported by gifts from alumni and friends of the University.

THE BILLY J. MURPHY SCHOLARSHIP FUND was established in 1974 to honor MSU Athletic Director Billy Murphy for his long service to the school. The \$700 scholarship award is made to a Memphis area student who has demonstrated financial need and shows scholastic ability.

THE SCRIPPS-HOWARD FOUNDATION — EDWARD J. MEEMAN SCHOLARSHIP FUND provides two scholarships annually in the amount of \$500 each to junior or senior journalism majors who demonstrate outstanding academic promise and financial need. Students must be pursuing an academic curriculum which would qualify them for a journalism career in the broadcasting or newspaper field.

THE SERTOMA CLUB—ROBERT TALLEY JOURNALISM SCHOLARSHIP was established to honor a long-time member of the editorial staff of the *Memphis Commercial Appeal*. Each year the Sertoma Club of Memphis awards a scholarship valued up to \$350 to an advanced journalism student who has done outstanding work at Memphis State University. Applications should be submitted to the dean of The College of Arts and Sciences.

THE SOCIAL WORK DIVISION SCHOLARSHIP FUND is maintained by the Opportunity Foundation Corporation and the State of Tennessee. Several scholarships in the amount of \$500 each are awarded annually to full-time juniors or seniors majoring in Social Work. Recipients are selected jointly by the faculty in the Division of Social Work and the Student Aid Office. Awards are based on scholastic standing and financial need.

THE TENNESSEE ASSOCIATION OF BROADCASTERS SCHOLARSHIP FUND provides one annual scholarship of \$300. This scholarship is awarded to the full-time junior or senior Radio-

Television major with the highest cumulative grade point average for the previous semester.

TENNESSEE ROAD BUILDERS ASSOCIATION provides four scholarships per year at \$400 each. Students must be interested in following a transportation career and construction related to roadbuilding. Selection is made by the Tennessee Road Builders Association.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS annually awards a number of scholarships of \$500 each to accounting majors with good academic averages. These scholarships are awarded on a competitive basis in relation to scholarship, extra-curricular activity, character and financial need. Applications are submitted through the Department of Accountancy.

THE MEMPHIS CHAPTER OF THE TENNESSEE SOCIETY OF PROFESSIONAL ENGINEERS AND THE MEMPHIS STATE UNIVERSITY FOUNDATION jointly sponsor two scholarships annually for a junior and senior year engineering student. Applications for these scholarships are submitted through the Herff College of Engineering.

WARREN BROTHERS SCHOLARSHIP provides a \$425 scholarship annually to one junior or senior student majoring in Construction Technology with priority consideration being given to students taking a course(s) in bituminous products. Selection is based on needs as well as academic ability. Application can be made through the Division of Engineering Technology with final selection being made by Warren Brothers Company.

THE HATTIE G. WATKINS SCHOLARSHIP FUND provides five scholarships at \$500 each, annually to students on the basis of scholastic standing and financial need. These scholarships are awarded to students who are employed part-time to help finance educational expenses.

THE HORACE H. WILLIS MEMORIAL SCHOLARSHIP of \$250 annually is awarded from time to time to an incoming freshman on the basis of need for financial assistance and evidence of academic promise.

THE WHIRLPOOL MANUFACTURING TECHNOLOGY SCHOLARSHIP FUND provides two \$350 scholarships annually to junior and senior students majoring in Engineering Technology with interest in metal products manufacturing.

LOANS AND GRANTS

Supplemental Educational Opportunity Grant Program

The Supplemental Educational Opportunity Grant Program is a federally subsidized program whereby direct gift awards may be made to undergraduate students with exceptional financial need. Normally, Educational Grants are awarded as a part of a financial package since the amount a student may receive cannot exceed one-half his established need. Students applying for Educational Grants must demonstrate academic or creative promise; the stipend may range from \$200 to \$1000 based on the student's established need.

Law Enforcement Education Program

The Law Enforcement Education Program, as enacted by the Omnibus Crime Control and Safe Streets Act of 1968, offers assistance in the form of loans and grants to law enforcement officers desiring to continue their education in the law enforcement field.

National Direct Student Loan Program

The National Defense Education Act of 1958 provided funds to institutions of higher education for the purpose of making low interest, long-term educational loans available to students who demonstrate academic promise and who have a need for financial assistance. These loans bear no interest until nine months after a student graduates or interrupts his course of study; then the interest rate is three per cent of the unpaid balance with a maximum repayment period of ten years. Repayment may be deferred for service in the Peace Corps or Vista.

Nursing Student Loan and Scholarship Program

The Nursing Student Loan and Scholarship Program is designed to increase the opportunities for students seeking careers in nursing by providing scholarship assistance and long-term, low interest loans. These programs are available to students who need assistance to pursue a course of study leading to an Associate Degree in Nursing.

Loan Funds

The University maintains a number of small loan funds for assisting students with emergency type loans. A listing of these is as follows:

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN LOAN FUND of \$200, administered by the Memphis branch of the AAUW, is available to women students recommended by the University.

THE GENERAL EVERETT R. COOK ARNOLD AIR SOCIETY LOAN FUND was established to provide financial assistance in the form of short-term loans for students enrolled in the Professional Officer Course of the Air Force Reserve Officers Training Corps.

THE GENERAL UNIVERSITY LOAN FUND provides short-term, low interest loans up to \$200 for those students in emergency situations.

THE KAPPA LAMBDA SIGMA AND PHI LAMBDA DELTA LOAN FUND of \$206 was presented by the Kappa Lambda Sigma sorority and the Phi Lambda Delta fraternity in memory of those members of Phi Lambda Delta who died in World War II.

THE DELTA OMICRON CHAPTER OF PHI DELTA KAPPA sponsors a loan fund of \$500, available in \$125 loans to full-time undergraduate

seniors and full-time graduate students who are planning to be teachers.

TENNESSEE ASSOCIATION OF PUBLIC ACCOUNTANTS LOAN FUND was established to enable a needy junior or senior student in the Department of Accountancy to remain in the University. Loans are non-interest as long as student remains in the University.

THE GENERAL RALPH H. WOOTEN LOAN FUND was established for the purpose of providing low-interest educational loans to students enrolled in the Air Force Reserve Officers Training Corps.

THE ZONTA CLUB OF MEMPHIS LOAN FUND of \$250 is available to eligible junior and senior women. Applicants' names are submitted to a committee of the Zonta Club for approval and selection.

University Revolving Student Loan Fund

The University Revolving Loan Fund is established for the purpose of providing low-interest, long-term educational loans to assist students with college related expenses. This fund consists of donations by individuals and organizations interested in providing a means whereby students in need of financial assistance can secure such assistance.

The Tennessee Student Assistance Award Program

Students who are residents of the state of Tennessee may apply for a Tennessee Student Assistance Award. These grants are awarded to students for the amount of registration fees and never to exceed \$1000. If a student's need is less than the cost of registration, as determined by filing the American College Testing Program Family Financial Statement, then the student may expect to receive no more than his actual established need. In order to apply, a student must submit a financial statement to the:

Tennessee Student Assistance
Corporation
707 Main Street
Nashville, Tennessee 37206

The ACT Code number for the Tennessee Student Assistance Corporation is 4015. Applications for this grant may be obtained through the Student Aid Office by writing to the above address. Determination as to grant recipients is made by the Agency in Nashville. For more information, write to the Tennessee Student Assistance Corporation.

Basic Educational Opportunity Grants

The Basic Educational Opportunity Grant (BEOG) Program was authorized under the Education Amendments of 1972. Other aid may be given in addition to the Basic Grant, as this program is intended to be the "floor" of a student's financial aid package.

The maximum yearly grant eligibility for each student is \$1400 less the amount the family and student can be expected to contribute toward educational expenses. Other limitations on payment are related to the costs of attendance at the institution where the student enrolls. The Basic Grant cannot exceed one-half the educational costs. All degree seeking undergraduate students are eligible to apply for the Basic Grant Program.

Other Loan Plans

There are several reliable plans under which parents may make loans to help defray the cost of college expenses. These plans provide loans at nominal rates of interest and are repayable in monthly installments. Two such plans are the College Aid Plan, Inc. and the Tuition Plan, Inc. Parents interested in securing additional information about college financing of this type can obtain more information by writing:

College Aid Plan, Inc.
1008 Elm Street
Manchester, New Hampshire 03101

The Tuition Plan, Inc.
Concord
New Hampshire 03301

The Tennessee Educational Loan Corporation, in cooperation with the federal government, guarantees 100 per cent of loans made by Tennessee banks or other lending institutions to students from Tennessee who need to borrow money for their college education. This program enables lending institutions to provide long-term, low interest loans to students with a guarantee of receiving payment. In most cases the federal government will pay the interest on these loans while the student is enrolled in college, and repayment does not begin until the borrower leaves college. Applications may be obtained from participating lending institutions and will be furnished by the University upon request. Similar programs known as Guaranteed Student Loans or Federally Insured Student Loans are available for non-residents through their home states. The Student Aid Office maintains a listing of all state agencies.

STUDENT EMPLOYMENT

There are many employment opportunities available through the University. The University operates two programs of student employment on campus: the College Work-Study Program and the Regular Work Program. Students seeking employment should contact the Uni-

versity Student Employment Office in Scates Hall (Room 314). Applications for employment may be filed at any time during the year. The Tennessee Department of Employment Security maintains an office in Room 205 of Scates Hall for assisting students with off-campus employment.

University Placement

Placement services are provided to assist graduating seniors and alumni communicate with prospective employers for full-time, permanent employment. Services include personal data files, on-campus interviews, listings of employment opportunities, employer information library and assistance in the techniques of interviewing. Registration with Placement is required prior to being referred for employment, and should be completed two semesters prior to graduation.

Similar placement services are offered by the Teacher Placement Office. This office serves students in the teacher education program and alumni desiring information concerning job vacancies in education.

A branch office of Tennessee Employment Security assists students seeking part-time employment. Attempts are made to place students in part-time jobs which are in keeping with their ultimate career goals.

STUDENT LIFE

Student Life is one of many components of the university community that combine to offer students a wide variety of learning experiences outside the formal classroom setting. These learning experiences, often classified in terms of co-curricular or student developmental activities, are available through group and individual experiences.

A major facet of student development falls under the administrative responsibility of the Division of Student Educational Services and in particular, the Associate Dean for Student Life. Included in the area of Student Life are Student Organizations, Greek Activities, Commuter Services, New Student Orientation, the Student Handbook, Religious Affairs, Volunteer Services, the Black Gospel Choir, the University Center, University Programs, Campus Recreation and Intramurals. Information on these and other co-curricular activities may be obtained in the Office of the Associate Dean of Students.

Participation in student groups and organizations is beneficial to an individual while a student and in his/her

chosen profession. Participation in student developmental activities supplement formal classroom learning by providing a real life laboratory in which students can grow and develop individual competencies. Students in good academic standing are encouraged to become involved in these activities.

Some organizations, because of their individualized requirements, may necessitate the student's meeting certain academic or other requirements. Invitation to membership, when required, is extended by the organization.

Complete information on the many and varied student developmental activities is available from the *Student Handbook* and the *Student Organizations and Activities Directory*. Copies are available at registration or in the Office of the Associate Dean for Student Life. The following section is a brief description of some of the major activities.

STUDENT GOVERNMENT

The Student Government Association, through authority delegated to it by the University, represents student opinion in working with other university components. Elected annually, the SGA is composed of elected and appointed officers, a senate and a judiciary.

PUBLICATIONS

Students write and edit *The Helmsman*, semi-weekly newspaper; *The DeSoto*, University yearbook; *The Phoenix*, the literary magazine; and the *Memphis Statesman*, a laboratory publication of the Department of Journalism; the *Student Handbook*, a yearly publication.

RELIGIOUS AFFAIRS

Several religious organizations maintain meeting facilities close to campus. These organizations provide activities adapted to the needs of the University and are designed to aid in the continuing religious growth and development of members of the university community. The organized religious groups include the Baptist Student Union, Barth Episcopal Student Organization, Campus Crusade for Christ, Christian Science Organization, Interservice Christian Fellowship, Koinonia Club, Jewish Student Union, Newman Foundation, Wesley Foundation, Westminster Fellowship and Wittenberg Society.

ART AND MUSIC

The Department of Art sponsors lectures, films, and shows as part of its yearly program. Galleries are located in Jones Hall and Brister Library.

The Department of Music offers activities and programs in which students may participate as individuals or as groups. Qualified students, regardless of major, may participate in the numerous musical groups including the University Symphony Orchestra, the University Bands, and a variety of choral groups and small instrumental ensembles.

SPEECH AND DRAMA

Students are invited by the Speech and Drama Department to audition for roles in plays, a Lunch Box Experimental Theatre, Readers' Theatre, and an original script program. Programs in radio, television, and film are offered by the area of Rhetoric and Communication.

THE GOODWYN INSTITUTE LECTURES

A series of free lectures and addresses, covering a wide variety of subjects, are offered by the Goodwyn Institute. The aim of the institute is to offer to the Citizens of Memphis and the University authoritative and accurate information on all kinds of practical and cultural subjects.

SOCIAL FRATERNITIES AND SORORITIES

Eighteen (18) national fraternities and eleven (11) national sororities are active on the Memphis State campus. The University strives to maintain a strong Greek system through coordination of Greek activities provided by the Office of Student Organizations and Greek Activities.

Fraternities—Most fraternities maintain chapter houses close to campus to provide living and meeting facilities for fraternity members. Student direction and guidance are provided through the Interfraternity Council and Pan-Hellenic Council. The national fraternities include: Alpha Epsilon Pi, Alpha Phi Alpha, Alpha Tau Omega, Kappa Alpha, Kappa Alpha Psi, Kappa Sigma, Lambda Chi Alpha, Omega Psi Phi, Phi Beta Sigma, Phi Gamma Delta, Phi Kappa Psi, Phi Kappa Theta, Phi Sigma Kappa, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Chi, and Sigma Phi Epsilon.

Sororities—Most sororities maintain suites in the Panhellenic Building located on the corner of Veterans and Patterson. Student direction and guidance are provided through the Panhellenic and Pan-Hellenic Councils. The national sororities include: Alpha Gamma Delta, Alpha Delta Pi, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Delta Zeta, Gamma Phi Beta, Phi Mu, Pi Beta Phi, Sigma Gamma Rho, Sigma Kappa, and Zeta Phi Beta.

Additional information about the Memphis State Greek system can be obtained from the Office of Student Organizations and Greek Activities.

UNIVERSITY PROGRAMS

University Programs is the principal programming body for the university community. It is composed of students selected and appointed with the purpose of providing social, cultural, recreational and educational activities, and events that appeal to all tastes. University Programs endeavors to develop the individual, broaden his interest, stimulate creativity, encourage display of talents and stress leadership and group interaction. Talent shows, Miss Memphis State, lectures, movies, speakers and tours are just a few of the many activities planned and facilitated by University Programs.

CAMPUS RECREATION-INTRAMURALS

As a part of the Division of Student Educational Services the Department of Campus Recreation-Intramurals provides all members of the University community the opportunity to participate in a wide variety of sports and leisure activities.

To provide recreational experiences that meet a portion of the individuals leisure needs the department offers leisure courses, free play, court reservations, special events and equipment loan (including camping gear). The Intramural program operates throughout the year and offers competition in seasonal sports on individual and team basis. The Club Sports program provides students an opportunity to develop skills and interests in various sports and activities.

The facilities of both the Physical Education Building Complex and the Field Complex are available for use by individuals who show evidence of their current association with the University during posted recreational hours. These facilities include: gymnasiums, racquetball/handball courts, tennis courts, softball dia-

monds, sports fields, weight rooms, swimming pools, a combatatives room, steam and sauna rooms, an all weather track, and archery ranges.

HONOR, RECOGNITION, AND PROFESSIONAL ORGANIZATIONS

Memphis State University is proud to have many national honor and recognition societies devoted to encouraging high standards of scholarship, leadership, and professional competence. These societies, through their programs and professional activities, provide an additional aspect of student development which would not ordinarily be obtained. Detailed information concerning these societies, including requirements for membership, purposes, and specific activities, can be found in the Student Handbook, from sponsoring university departments and in the Office of Student Organizations and Greek Activities.

Honors and Awards

THE COLLEGE OF ARTS AND SCIENCES

THE BETA BETA BETA AWARD is annually presented to the graduating senior and member of the Society who graduates with the highest grade point average in biology.

THE AMERICAN INSTITUTE OF CHEMIST AWARD is presented to the graduating chemistry major who best demonstrates leadership, ability, character and scholastic ability.

THE DEPARTMENT OF ENGLISH offers several awards:

- The Distinguished Scholarship Award presented each year to the English major whose work demonstrates an unusually high order of academic excellence.
- Honors Thesis Award, presented in recognition of the outstanding honors thesis submitted during the previous academic year by a student in the English Honors Program.
- Freshman Writing Awards: Presented for creative excellence shown by freshman writers of essays, poetry, and fiction.

FRENCH GOVERNMENT ASSISTANTSHIPS: The French Government through the French Embassy in The United States, on the recommendation of the French Section of the Department of Foreign Languages awards each year one or more assistantship in France for the teaching of English in secondary schools.

THE DEPARTMENT OF HISTORY annually presents the Tennessee Historical Commission Award to that senior student of history judged by the faculty to be the outstanding history major.

THE DEPARTMENT OF PHILOSOPHY OUTSTANDING STUDENT AWARD to that student of philosophy chosen on the basis of high scholastic achievement, papers written, and performance in senior honors seminars.

THE DEPARTMENT OF POLITICAL SCIENCE presents The Outstanding Student Award each year to the graduating senior majoring in political science who has compiled the best record of academic achievement in the discipline.

THE DEPARTMENT OF PSYCHOLOGY sponsors the Undergraduate Research Festival Awards based on fine papers, each reporting on a research project originated and conducted by an undergraduate student in psychology.

THE DEPARTMENT OF SOCIOLOGY annually presents The Outstanding Student Award to the senior student judged to be the outstanding sociology major. Also, The DIVISION OF SOCIAL

WORK presents the Graduate with Distinction Award to the graduate who has been selected for dedication, achievement, and potential for professional service.

CHI BETA PHI SCIENCE AWARDS annually a plaque to the student who has attained the highest academic average during his four years of study in each of the following disciplines: Biology, Chemistry, Geology, Mathematical Sciences, and Psychology.

THE COLLEGE OF BUSINESS ADMINISTRATION

THE AMERICAN SOCIETY OF WOMEN ACCOUNTANTS, Memphis Chapter, annually awards a \$350.00 tuition scholarship based on scholarship and need, to a junior or senior majoring in accountancy.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS AWARD, Memphis Chapter, is presented annually to the graduating student who has the highest overall scholastic average among all accountancy majors.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS SCHOLARSHIP Memphis Chapter, presents one or more scholarships to accounting majors based on good scholarship, co-curricular activities, character and financial need.

THE MEMPHIS CHAPTER OF THE SOCIETY OF CHARTERED PROPERTY CASUALTY UNDERWRITERS annually awards a check and a plaque to the outstanding student in the field of insurance.

SOCIETY FOR ADVANCEMENT OF MANAGEMENT SCHOLARSHIP is annually awarded to that member of SAM who has served the society in an exemplary manner and demonstrated leadership in the field of management.

MEMPHIS HOUSEWARES CLUB SCHOLARSHIP is presented annually to a marketing major to cover the registration fee.

THE NATIONAL BUSINESS EDUCATION ASSOCIATION annually awards a certificate of merit, a one-year subscription to the N.B.E.A. Forum magazine, and a one-year membership card in the Association to the outstanding graduating senior who has majored in the field of business education.

NATIONAL SECRETARIES ASSOCIATION, MEMPHIS CHAPTER annually awards a \$300.00 scholarship to a graduating high school senior based on scholarship and a desire to be a secretary.

PHI GAMMA NU, professional sorority in business, each year presents a scholarship key to the woman business graduate who has maintained the highest scholastic average in The College of Business Administration.

FINANCIAL EXECUTIVES INSTITUTE SCHOLARSHIP of \$250.00 is awarded annually to a second-semester junior in The College of Business Administration based on ability, need and an interest in controllership or financial management.

JOSEPH A. MAGDOVITZ SCHOLARSHIP of \$500.00 is awarded each year to a business major who resides in Shelby County, Tennessee or DeSoto County, Mississippi.

THE WALL STREET JOURNAL annually awards a plaque and a one-year subscription to the JOURNAL to the most outstanding graduate in the field of finance and one in economics.

DELTA SIGMA PI, international business fraternity, annually awards a scholarship key to the man in The College of Business Administration graduating with the highest academic average in business.

W. FRED CHAFIN SCHOLARSHIP of \$500.00 is awarded to a student who has demonstrated excellence in the field of business and who is a resident of West Tennessee.

THE COLLEGE OF COMMUNICATION AND FINE ARTS

BOB JOHNSON MEMORIAL SCHOLARSHIP of \$100.00 is awarded annually to that student who shows interest in and dedication to journalism as a profession.

ELEANOR B. O'NEILL SCHOLARSHIP of \$500.00 is awarded to a junior or senior student of journalism who shows promise in the field.

JAN GARDNER & ASSOCIATES INC. ADVERTISING SCHOLARSHIP of \$500.00 is awarded annually to a deserving journalism student planning a career in advertising or related field.

MEMPHIS ADVERTISING FEDERATION ASSISTANTSHIP of \$1,800.00 is designed to encourage young people with outstanding ability and talent to enter careers in advertising.

MEMPHIS GRIDIRON MIKE MCGEE MEMORIAL SCHOLARSHIP of \$500.00 is awarded to an upperclassman majoring in journalism who has demonstrated outstanding scholastic and journalistic ability.

NATIONAL OBSERVER AWARD is presented annually to the most outstanding journalism major.

SIGMA DELTA CHI CITATION, Memphis Chapter, annually presents a certificate of achievement to the student chosen as outstanding in the field of journalism.

SCRIPPS-HOWARD FOUNDATION, EDWARD J. MEEMAN SCHOLARSHIP in the amount of \$500.00 is annually awarded to a junior or senior student of journalism who intends to enter the field of newspaper journalism.

SOCIETY FOR COLLEGIATE JOURNALISTS annually awards the Medal of Merit for outstanding achievement on campus publications.

SOCIETY OF PROFESSIONAL JOURNALISTS, SIGMA DELTA CHI MARK OF EXCELLENCE AWARDS, Arkansas, Louisiana, Mississippi, West Tennessee Region annually presents first place awards for: Best TV Broadcasting, Best Editorial Cartoon, Best Feature Article, and Best Photography: Feature.

WILLIAM RANDOLPH HEARST FOUNDATION SCHOLARSHIP of \$250.00 is awarded annually to an upperclassman majoring in journalism who intends to enter newspaper journalism.

SIGMA ALPHA IOTA COLLEGE HONOR AWARD annually presents an award band on musicianship, scholarship, and general contribution to the Collegiate Chapter.

SIGMA ALPHA IOTA HONOR CERTIFICATE is presented annually to the music major graduating with the highest academic average.

LUBRANI CLARINET AWARD, in memory of Professor Frederic Lubrani, is presented for performance ability, general scholarship, service to the Music department, and potential in the profession.

SMIT COMPOSITION AWARD is presented in memory of Professor Johannes Smit for excellence in composition.

THE COLLEGE OF EDUCATION

THE DEPARTMENT OF DISTRIBUTIVE EDUCATION OUTSTANDING SENIOR AWARD is presented each year to the graduating senior in the department with the highest academic average.

DECA SERVICE AWARD is presented annually to the senior majoring in distributive education who has made the most outstanding contribution to the Memphis State Chapter.

ELEANOR MAE FERGUSON AWARD is presented each year to the outstanding junior or senior woman physical education major who displays strong leadership, outstanding character, high scholarship and an active role in departmental and campus activities.

RALPH HATLEY, SR. AWARD is presented to the outstanding junior or senior male physical education major who displays strong leadership, outstanding character, high scholarship and an active role in departmental and campus activities.

HPER WIVES CLUB SCHOLARSHIP, based on scholarship, leadership, service and professional attitude, is presented to a junior or senior who is majoring in one of the degree programs in the department.

HPER OUTSTANDING SENIOR AWARD is presented in recognition of meritorious scholarship, leadership, and service to the University, the community, and the profession.

INTRAMURAL GREEK OF THE YEAR AWARD is presented annually to a young man who shows leadership and interest in the intramural program.

INTRAMURAL INDEPENDENT AWARD is presented annually to a young man who shows leadership and interests in intramural activities.

INTRAMURALS OUTSTANDING SERVICE AWARD is presented to a student for outstanding service as an intramural manager, participant, and official.

HOLIDAY INN HOME ECONOMICS AWARD is presented each year to the graduating senior with the highest academic grade point average in home economics.

DEPARTMENT OF SPECIAL EDUCATION AND REHABILITATION OUTSTANDING STUDENT AWARD is annually presented by the Student Council for Exceptional Children to the outstanding student majoring in the department who displays strong leadership, outstanding character, scholarship and an active role in departmental and campus activities.

KAPPA DELTA PI AWARDS: Junior Academic Award is presented to the outstanding junior in The College of Education. **SENIOR ACADEMIC ACHIEVEMENT AWARD** is presented to the outstanding senior enrolled in The College of Education. **MEMPHIS EDUCATION ASSOCIATION AWARD** is presented each year to the graduating senior who, having graduated from the Memphis City Schools System and completed all college level work in a teacher education program at the University has attained the highest grade point average of the students in this category.

HEBER E. RUMBLE OUTSTANDING STUDENT TEACHER AWARD is presented each year to the student whose performance in student teaching is judged to be the most outstanding.

DEAN'S AWARD IN THE COLLEGE OF EDUCATION is presented on the basis of scholarship, professionalism, leadership, and service to the College of Education, the University, and/or professional organizations.

THE HERFF COLLEGE OF ENGINEERING

OUTSTANDING SENIOR AWARDS in the College of Engineering are presented to the outstanding senior in each of the five departments: Civil, Electrical and Mechanical Engineering, Geology, and Engineering Technology based on scholarship, leadership and service.

OUTSTANDING STUDENT MEMBER OF IEEE is presented an award by The Institute of Electrical and Electronics Engineers, student chapter.

ENGINEERING TECHNOLOGY SOCIETY AWARD is annually presented to the outstanding student by the student chapter.

ASSOCIATED GENERAL CONTRACTORS AWARD is presented annually by the student chapter for outstanding achievement.

THE UNIVERSITY COLLEGE

DISTINGUISHED SPECIAL PROJECT AWARD is presented to each student whose special project has been judged outstanding by the Faculty Council of University College.

DEPARTMENT OF AEROSPACE STUDIES

LEGION OF VALOR BRONZE CROSS OF ACHIEVEMENT recognizes one outstanding Air Force ROTC senior cadet in the southeast area for performance and achievements as an AFROTC cadet.

AMERICAN FIGHTER ACES ASSOCIATION AWARD recognizes the outstanding graduating AFROTC pilot candidate in the southeast based on performance and achievements as an AFROTC cadet and performance in the Flying Instruction Program.

THE PRESIDENT'S AWARD IS PRESENTED annually to the MSU Freshman or Sophomore AFROTC cadet who has demonstrated outstanding attributes of leadership and high moral character. Selection is made by AFROTC with final approval by the University President.

ANGEL OF THE YEAR AWARD is presented to the member of Angel Flight who has given the most in service to the campus and the community.

ARNOLD OF THE YEAR AWARD is presented to the member of Arnold Air Society who has given the most in service to the campus and the community.

MARIA LEONARD SCHOLARSHIP AWARD is presented annually by Alpha Lambda Delta, national scholastic honor society, to the senior member of the society with the highest academic average.

THE WOMAN'S ASSOCIATION JUNIOR SCHOLARSHIP AWARD is annually presented to the woman member of the junior class who has attained the highest scholastic average.

PHI KAPPA PHI SCHOLARSHIP AWARD is presented annually to a member of the society who graduates with the highest academic average.

THE INTRAFRATERNITY COUNCIL annually presents four \$100 scholarships, one each to a

sophomore, a junior, and a senior fraternity member who attains the highest scholastic average in his class. The fourth scholarship is presented to the fraternity pledge from the previous fall or spring semester who attained the highest grade point average.

THE PANHELLENIC COUNCIL annually awards two \$200 scholarships to the sophomore and the junior sorority member who has attained the highest scholastic average. In addition a Pledge Scholarship in the amount of her sorority's initiation fee is awarded to the fall semester pledge who attained the highest average for that semester.

THE STUDENT GOVERNMENT ASSOCIATION presents at each commencement convocation a plaque and a \$100 check to the graduating senior who has attained the highest cumulative average.

STUDENT HOUSING

The University operates six residence halls for men and five residence halls for women. No one is required to live in a residence hall, and students who wish to do so should make application at the earliest possible date. Application for housing must be made independently of the application for admission to the University, and forms may be obtained from the Residence Life Office. Completed applications should be returned to the Residence Life Office. For information concerning residence hall rents and deposits see page 26.

Housing Policy

Students living in the residence halls must be registered as full-time students unless they have special permission from the Director of Residence Life. Married students must have permission granted by the Director of Residence Life to live in the residence halls. If a resident ceases to attend classes for any reason except illness, he will be asked to withdraw from the residence halls and the University. If a student chooses to withdraw from the University, he must vacate his residence hall accommodation immediately upon completion of the withdrawal procedure. It is the prerogative of the Director of Residence Life to refuse a room assignment to any applicant or to terminate the occupancy of any resident when it is felt that there is justifiable cause.

ATHLETIC PROGRAMS

The University sponsors men's and women's intercollegiate athletic programs. Policies for intercollegiate athletics are set by the University Committees on Athletics.

The intramural program operates throughout the year and provides students with opportunities to compete in

seasonal sports either as individuals or as members of teams from the various student organizations. Individual competition is offered in tennis, shuffleboard, badminton, table tennis, archery, handball, racquetball, golf, billiards, wrestling and swimming. Team participation is offered in softball, bowling, basketball, volleyball, and track. Recreational equipment may be borrowed from the recreational loan office.

The extramural program provides students an opportunity to further develop skills in sports which they have acquired in the Physical Education classes and Intramurals. Instructors in the Physical Education Department serve as coaches for teams competing in various sports such as badminton, handball, racquetball, volleyball, weightlifting and wrestling. The teams compete on the intercollegiate level as well as attending open tournaments. Funding for these teams is from the Division of Student Educational Services.

The intercollegiate program sponsors teams in football, basketball, baseball, track, golf, tennis, gymnastics, racquetball, badminton, and volleyball. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State University.

OTHER INFORMATION

Student Conduct and Disciplinary Proceedings

It is assumed that applicants for admission to Memphis State University are mature adults, and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. The rules and regulations at Memphis State University are of such nature as to secure ready cooperation on the part of students in making them effective. These rules and regulations are outlined in the Student Handbook, distributed to all students at the time of initial registration and every student is required to be knowledgeable of the Code of Conduct and Disciplinary Pro-

ceedings and adhere to the stated regulations.

The Student Identification Card

The University issues to each student an identification card which bears his photograph and social security number. The card remains the property of Memphis State University and must be surrendered to the University when a student withdraws, graduates or fails to re-enroll.

Inquiries about student identification cards should be made in the Office of the Assistant Dean of Students, 114 Scates Hall.

The card, with the current validation sticker, is required for the borrowing of library books, admission to or approval to pick up or purchase student tickets to athletic and social events, the sale of used text books, and other official purposes.

The card is also required to gain admission to the Registration Center each registration period.

If an ID Card is lost or stolen the student has twenty-four hours to file the proper report with the Assistant Dean of Students and/or the Security Office. In all cases, a student will be required to have a replacement card made.

The replacement fee is \$10.00 for a card that has been damaged, stolen, or lost. A student will be charged a \$2.00 fee to make any change in data on his card.

The card, as part of the withdrawal procedure must be surrendered to the proper official before his withdrawal from the University can be considered complete.

Fraudulent use of the ID card will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason.

Automobiles on Campus

Each person who expects to operate and park any motor vehicle on the campus of Memphis State University must register it in the Security Office and receive an official permit. Permits are valid from September through August. All students must show proof of title of vehicles upon registering automobiles with the Security Office.

Limited parking space necessitates close regulation of traffic. Each student

is responsible for acquainting himself with the campus traffic and parking regulations, copies of which are available in the Security Office.

Bookstore

The University Bookstore, located in the University Center, is owned and operated by the University for the convenience of its students, faculty, staff, and their guests. In addition to textbooks and supplies required or recommended for every course in the University, the Bookstore also stocks clothing, cosmetics, notions, physical education uniforms, stationery, rental typewriters, and gift items; it is the only source for purchase of the official Memphis State University class ring.

Post Office

The University Post Office, located on the first floor of Jones Hall, has post office boxes available for rent by students and faculty. Students living in University housing have post office boxes located in these facilities, charges for which are included in the residence hall rent. Student mail should be addressed to the proper post office box number, Memphis State University, Memphis, Tennessee 38152.

Alumni Association

The Memphis State University Alumni Association maintains active contact with former students for the mutual benefit of alumni and the University.

All students who have completed at least one semester, and are no longer enrolled in the University, are automatically members of the Association. There are more than 100,000 Memphis State alumni.

The Alumni Association annually conducts a fund drive. Proceeds are used for scholarships, teacher supplements, and other improvements for the University.

The Association is organized nationally. It is governed by a 33-member Board of Directors elected by the general alumni membership and alumni chapter presidents on a geographical basis and by special interest.

The Alumni Association coordinates all university events involving alumni. It publishes *The Columns* magazine six times a year.



ORIENTATION, ADVISING, AND REGISTRATION

The academic year begins in late August or early September and covers a period of forty-eight weeks divided into two semesters and a summer session. Each semester is approximately eighteen weeks in length. There is a Summer Session with three-week, five to six-week, nine-week, and extended terms.

An orientation and academic advising program for all new freshmen is held during the summer preceding fall registration. The sessions are conducted in order to acquaint entering students with various programs of study, general University regulations, and registration procedures. Students are assigned advisors who aid them in selecting appropriate courses. *Assistance from the adviser, however, does not relieve the student of the responsibility of studying the Bulletin himself and fulfilling all of the requirements therein for his particular goal.* It is expected that by the time a student has attained senior standing he will consult with the dean of his college in regard to the fulfilling of requirements for his chosen degree.

The *Schedule of Classes*, published a few weeks before the beginning of each semester and available from the office of the Dean of Admissions and Records, contains a detailed outline of the registration procedure and course changes and additions made since the publication of the *Bulletin*. Students are urged to study these schedules carefully and to keep them available for immediate reference during the registration period and throughout the semester. All students are expected to register on the dates indicated in the calendar; although registration is permitted after these dates, a late registration fee is charged, and there is no reduction in other fees.

In no case is credit allowed in any course for which the student is not duly registered; and all courses for which the student is registered are recorded as passed (with a letter grade), "T," credit, failed, satisfactory, unsatisfactory, incomplete, dropped, or withdraw. No student will be granted credit for a course which is not properly entered on his official registration material. Registration is not complete until all fees for the semester have been paid.

CLASS ATTENDANCE

The success of the courses and programs at Memphis State University is the joint responsibility of faculty and

students. Just as the faculty are responsible for the teaching of courses and creation of programs and for maintaining high academic standards, students are responsible for participating appropriately in each of these courses, for completing all course requirements, for performing to the best of their abilities, and for attending classes. Class attendance, *per se*, will not be used in computing a student's course grade; however, each student must understand that performance on all measuring instruments will determine academic success, and that failure to attend and participate in class or to meet similar responsibilities (as in the case of an internship or a laboratory) will undoubtedly deny him the opportunities he may need to acquire the full understanding and skills necessary for successful completion of his academic work.

Instructors are permitted, for valid reasons, to have their courses exempted from this policy so that they may require attendance. A list of any courses which have been exempted from this policy may be found in the offices of the President, the Vice President for Academic Affairs, the Vice President for Student Educational Services, the Deans of the six undergraduate degree-granting colleges, and in the Brister Library.

Absence from the final examination without the permission of the instructor incurs a mark of F.

Adding and Dropping Courses

After the official registration period is over, the student may make adjustments in his schedule through the process of adding and/or dropping courses. Courses may be added only during the first five days of classes (three days in the six-week summer term and four days during the extended term). Courses dropped during this same period will not be shown on the student's permanent record. Courses dropped *after* the period to add classes will be indicated on the record as dropped. A student may drop any course or courses up to the middle of the semester on the date specified in the University Calendar for that term. Exceptions are made only on the basis of such unusual circumstances as serious personal illness, relocation because of employment, et cetera. A fee is charged for courses added or dropped. See the section of the *Bulletin* pertaining to fees and charges. To stop attending a class without officially dropping the course incurs the grade of F.

Withdrawal From University

Any student who wishes to officially withdraw from the University must do so in person through the Center for Student Development. The student must complete an application for withdrawal and turn in his student identification card at the time of withdrawal. Failure to officially withdraw will result in the student's receiving grades of F for the courses in which he is enrolled. Students enrolled in evening classes withdraw in the Evening Academic Services office. Students enrolled in The Graduate School should report their withdrawals to the office of the Dean of The Graduate School.

Withdrawal is not permitted after the date specified in the University Calendar for that term (the date on which one-half of the term is completed). Exceptions are made to this policy only in cases of such extreme circumstances as serious personal illness, relocation because of employment, et cetera.

CLASSIFICATION OF STUDENTS

Classification of students is based on the number of credit hours earned as shown in the table below.

Classification	Semester Hours
Freshman	0-24
Sophomore	25-54
Junior	55-84
Senior	85 or more
Special	Students not working on a degree

Students who have completed the required number of hours to be classified as juniors but who have not completed their basic requirements in the Lower Division should schedule these uncompleted requirements during the first semester following in which such courses are available in order to avoid a possible delay in graduation.

Credit Hours and Maximum Load

The unit of credit at Memphis State University is the semester hour; a semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two hours per week of laboratory for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week; or for two lecture or recitation hours and two laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum credit hour load for classification as a full-time student and the maximum loads are found in the table below:

**FULL-TIME CLASSIFICATION
AND MAXIMUM LOAD**

Term	Minimum Hours	Maximum Hours
Fall or Spring	12	*18
Pre-Summer	3	4
First or Second Summer	4	7
Nine-Week Summer Only	8	9
Extended Summer only	8	14
Nine-Week and First or Second	8	10
Extended and First or Second	8	10
Nine-Week and First and Second	9	14
Extended and First and Second	9	14
Extended, Nine-Week, First, and Second	9	14

*This does not include the required physical education activity course. A student who has a B (3.0) average or better for a semester may, with the permission of the dean of his college, schedule a maximum of twenty-one hours for the following semester.

NOTE: ID card validation of full-time is for student activity purposes and does not necessarily constitute a full-time academic load.

The maximum course load for any combination of concurrent summer terms is ten semester hours. The student's course load for the entire summer session may not exceed 14 semester hours, excluding credit earned in the Pre-Summer Term or special courses which do not overlap one of the three following terms: First Summer, Second Summer, or Extended Term. (This may differ from requirements for the Veterans' Administration. Questions should be directed to the Coordinator of Veterans' Affairs.)

SCHOLASTIC STANDARDS

Grades and Quality Points

Grades

At the end of each semester or summer term, instructors report to the Records Office the standing of all students in their classes. The grade of a student in any course is determined by his class standing and his examination, combined in such proportion as the instructor in charge of the course may decide. Class standing in any course is determined by the quality of the student's work, and the thoroughness of his preparation.

The instructor's evaluation of the student's work is expressed by the fol-

lowing grades which are converted to quality points for the purpose of averaging grades.

Grade	Quality Points	Grade	Quality Points
A, Excellent	4	T (See below)	0
B, Good	3	CR, Credit	0
C, Satisfactory	2	W, Withdrew	0
D, Poor	1	AD, Audit	0
F, Failure	0	*S, Satisfactory	0
I, Incomplete	0	*U, Unsatisfactory	0

*IP (In Progress) is sometimes given for courses graded on S/U basis. The S/U grade is limited to certain types of courses such as practicums, practice teaching, etc. It is only awarded for those undergraduate courses for which it is indicated in the course descriptions.

All courses for which the student is registered are recorded as passed (with a letter grade), "T", failed, dropped, withdrew, credit, satisfactory, unsatisfactory, or incomplete. In no case is credit allowed in any course for which the student is not duly registered. No student will be granted credit for a course which is not properly entered on his official registration card.

GRADE OF INCOMPLETE

The grade of I (incomplete) indicates that the student has not completed the course for some unavoidable reason that is acceptable to his instructor. Unless the student completes the requirements for removal of "I" within forty-five days from the end of the semester or summer term in which it was received, the grade of "I" will be changed to an F, regardless of whether the student is enrolled or not. Extensions may be granted if the instructor's absence from the campus makes it impossible for the student to remove the incomplete. Grades of incomplete earned during the student's semester of proposed graduation will delay the student's graduation.

All grades, with the exception of "I", when reported, can be changed only by the instructor who reported them and then only after approval by the faculty Committee on Entrance and Credits. There is a Grade Appeals procedure described below.

"T" GRADE

In order that students may be permitted to complete independent studies courses in variable time periods which might exceed a regular enrollment period, the "T" grade has been introduced. The following procedure governs the use of the "T" grade:

1. Prior to the registration period, the professor obtains approval of his chairman and dean to use the "T" grade in a course(s).

2. The dean notifies the Records Office of courses for which the "T" grade may be awarded.
3. At the end of the regular term, the faculty member has the following options:
 - a. Award grades A-D.
 - b. Award an "I" grade if the faculty member feels that the work can be completed in 45 days. (If an "I" grade is awarded, a runner with the student's name on it will be sent to the faculty member at the end of 45 days. The faculty member *must* record either an A-D or the "T" grade to prevent the computer from automatically assigning an "F".)
 - c. Award a "T" grade. If the "T" grade is awarded, the student must re-register for the course in order to earn credit. The "T" grade is not used in the computation of GPA.

REPETITION OF COURSES

A student has the privilege of repeating most courses in an attempt to improve the grade previously made. The grade he makes the last time the course is taken is the grade that will be considered as the final grade, and it is the one which will be used in the computation of the student's grade point average. The record will continue to reflect previously earned grade(s) in the same course, but neither the previously earned grade(s) nor the credit hours will be used to compute the grade point average. When a course is repeated and a failing grade is earned, the student loses the credit previously earned. A student may not attempt the same course more than three times for the purpose of obtaining a passing grade or a higher grade. There are some courses which may not be repeated for the purposes of improving a previously earned grade. Information concerning such exceptions may be obtained in the office of the chairman of the department in which the courses are offered.

AUDIT COURSES

Students who are registered for one or more classes at Memphis State University may also register to audit a course with the approval of their adviser and the chairman of the department in which the course will be offered. Auditors are not required to prepare lessons or papers, or take examinations. They are not to take part in class discussions or laboratory or field work. A student auditing a course will receive "audit" on his/her transcript only if in the judgment of the instructor he/she has attended a sufficient number of classes to deserve the notation on the transcript. Faculty will base their decisions for awarding "audit" only on attendance as the student is not allowed

by policy to participate in any other way.

Persons who are not enrolled for credit courses may register for audit courses with the approval of the Dean of Admissions and Records and the department chairman. These persons must have graduated from high school or be 18 years of age or older.

Students enrolled for credit courses may take no more than one audit course per semester. Persons who are not enrolled for credit courses may register for a maximum of three courses with the approval of the department chairman.

Fees for audits will be assessed on the same basis as fees for credit courses. Persons suffering from a permanent disability which totally incapacitates such person from working at an occupation which brings him an income, and persons sixty (60) years of age or older, who are domiciled in Tennessee, may AUDIT courses at Memphis State without paying tuition charges, maintenance fees, student activity fees, or registration fees. Admission to AUDIT will be limited on an individual classroom basis according to space availability.

Any person who is totally disabled, and persons sixty-five (65) years of age or older, who are domiciled in Tennessee, may enroll for courses for credit at the cost of \$9 per semester hour, not to exceed \$75 per semester. The University Health Services shall examine certification of permanent disability (not the applicant) and determine the eligibility of the applicant under this legislation.

Inquiries concerning these programs may be addressed to the Records Office, Administration Building, Room 115, or telephone 454-2671.

CREDIT-NO-CREDIT COURSES

The University, wishing to encourage mature students to broaden their range of interest without jeopardizing their grades, allows any student who has earned at least 60 semester hours with a minimum grade point average of 3.0 to enroll in credit-no credit courses as determined by his college. The student is limited to one course per term and may not accumulate more than 12 semester hours on a credit-no-credit basis. (In most cases, Physical Education Activity courses are exempted from these requirements. See page 137.) A student who transfers from one college to another should be aware that credit-no-credit hours may be acceptable in one and not in another. In

every instance, approval to register for a course on a credit-no-credit basis must be obtained from the advisor and the dean of the student's degree granting college. Credit hours earned on a credit-no-credit basis will be accepted toward degrees within the following limitations:

The College of Arts and Sciences accepts hours earned on a credit-no-credit basis in any course which is not required for the student's degree.

The College of Business Administration accepts hours earned on a credit-no-credit basis only in courses which are designated as electives in the student's degree program.

The College of Communication and Fine Arts accepts hours earned on a credit-no-credit basis in any course which is not required for the student's major.

The College of Education accepts hours earned on a credit-no-credit basis in any course which is not required for the student's major.

The College of Engineering accepts hours earned on a credit-no-credit basis in any course which is not specifically required for the student's degree.

The University College accepts hours earned on a credit-no-credit basis in any course not required for a student's Coordinated Study Program.

A student who registers for a course on a credit-no-credit basis may change the registration to a letter grade-quality point basis only during the add period, and a student who registers for a course on a letter grade-quality point basis may change the registration to a credit-no-credit basis only during the add period. A student making such a change will be charged as if he were dropping and adding a course. The student who successfully completes a credit-no-credit course will receive the appropriate number of hours as credit toward his graduation. These hours will not be used in the computation of his grade point average.

STUDENT GRADE APPEAL PROCEDURE

This appeal procedure is designed to provide any undergraduate or graduate student at Memphis State University with a clearly defined avenue for appealing the assignment of a course grade which he or she believes was based on prejudice, discrimination, arbitrary or capricious action, or other reasons not related to academic performance. In all cases the complaining student shall have the burden of proof with respect to the allegations in his complaint and in his request for a hearing. If any party fails to pursue timely any step of the procedure, the disposition of the student's complaint made in

the last previous step shall be final. The procedure will be terminated at the level at which the instructor and the student are brought into agreement on the appealed grade. All correspondence and records will be retained in the office in which the complaint is finally resolved.

Step 1 The student shall first consult with the instructor in an effort to provide a satisfactory resolution of his complaint. In the event the student cannot schedule a meeting with the instructor, he may contact the department chairman who will schedule the meeting between the student and the instructor. The only exception to this procedure is the case where the instructor has been terminated by the University or is unavailable so that it is impossible to complete Step 1 within the allotted forty-five days. In this case the student may proceed directly to Step 2.

Step 2 If the complaint is not resolved in Step 1, the student may present his complaint in writing to the chairman of the department in which the course was offered within *forty-five* days from the end of the term during which the grade was received. The department chairman will attempt to resolve the complaint in consultation with the instructor and the student within a *fifteen-day* period dating from the formal presentation of the written complaint. The department chairman may, at his discretion, counsel with the faculty of the department.

If the department chairman was the instructor of the course involved in the complaint or if for any reason the chairman disqualifies himself, the written complaint of the student shall be submitted to the dean of the college.

The student's grade may be changed in Step 2 of the appeal procedure by the written consent of the instructor and the student.

Step 3 If the complaint cannot be resolved at the level of Step 2 within the prescribed fifteen-day time period, the student, within *five* days following the end of such period, may request in writing that the chairman forward his complaint to the dean. The chairman must forward the student's complaint to the dean within *five* days. The chairman will provide the dean with a copy of all correspondence and records pertaining to the complaint.

The dean may utilize any resources available to his office to resolve the grade conflict within a *fifteen-day* period. The dean's decision in this matter will be formally announced at a meeting of the dean, the chairman, the instructor, and the student. If the dean and chairman are in agreement that the grade should be changed, either raised or lowered, the dean shall be empowered to change the grade without the instructor's consent. Otherwise the grade shall remain as recorded.

Either the student or the instructor may appeal the decision made under Step 3 within *fifteen* days by filing a written request for a hearing before the University Grade Appeals Committee. In the event of such an appeal the decision shall be stayed pending the completion of the procedure in Step 4. The dean must be provided a copy of the hearing request.

Step 4 The written request for a hearing before the University Grade Appeals Committee should state the factual basis for the appeal of the dean's decision. If the committee finds the student's or the instructor's request merits a hearing, the committee shall notify the student, the instructor, the chairman and the dean of the time and location of the hearing. If the committee finds that the request does not merit a

hearing, the student and the instructor shall be so notified.

The University Grade Appeals Committee shall function as a review board. Based on its appeal review process, the committee shall make the final decision. It shall have the power to allow the assigned grade to stand or to raise or lower the assigned grade. Its decision must be formally announced to all parties. The time schedule allotted for completion of action by the committee shall be *fifteen* days.

The University Grade Appeals Committee shall be composed of seven members and seven alternates constituted as follows:

A chairman designated by the Vice President for Academic Affairs, a faculty member and alternate designated by the dean of the college involved, two faculty members and two alternates elected by the Academic Senate, three students and three alternates selected through the Student Government Association.

Although the primary responsibility of the committee is to review appeals, the committee will report any obvious discriminatory or capricious conduct on the part of either the student or the instructor to the appropriate Vice President for his consideration and action.

Quality Points

In computing a student's scholarship ratio, or quality point average, all courses attempted are included except credit-no-credit, audit, incomplete, and satisfactory-unsatisfactory courses and "T" grades. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, T, F; he has thus accumulated quality points in the amount of 12, 9, 6, 0, 0, for a total of 27. In computing his quality point average, the number of hours attempted (except "T" grade (12) is divided into the quality points earned (27) for an average of 2.25.

Graduation. A minimum of 2.0 quality point average on all work attempted is required for graduation.

Academic Status and Retention

At Memphis State University, the academic status of a student is denoted by one of four conditions:

- (1) GOOD STANDING
- (2) ACADEMIC DEFICIENCY
- (3) ACADEMIC PROBATION
- (4) ACADEMIC SUSPENSION

Official notification of academic status is by means of the grade report processed to each student at the end of the regular semester or summer session. The academic status will be stated at the end of the report of grades according to one of the four conditions. Policies and procedures related to each of these conditions are outlined in the following comments.

GOOD STANDING

A student is in good standing so long as the number of grade points earned is equal to twice the number of cumulative hours attempted. This is equivalent to a 2.00 average.

ACADEMIC DEFICIENCY

The status of academic deficiency signals that a student has a cumulative grade point average of less than 2.00 but that his grade point deficiency is not sufficiently large to warrant his being placed on academic probation as defined in this policy statement.

ACADEMIC PROBATION

A student will be placed on academic probation at the completion of any regular semester or summer session when his cumulative GPA falls below the following:

HOURS ATTEMPTED	MINIMUM GPA
11.99 or less	No minimum
12.00—25.99	1.00—1.39
26.00—39.99	1.40—1.69
40.00—59.99	1.70—1.89
60.00—89.99	1.90—1.99
90.00 or more	2.00

For numbers of hours attempted which are not in the table, the minimum GPA required will be based on each hour attempted. For each hour attempted from 12.00 through 90.00, a gradual increase in minimum GPA is required.

ACADEMIC SUSPENSION

A student on academic probation who, during his next term of enrollment, fails to raise his grade point average to the acceptable minimum indicated above will be placed on academic suspension for not less than one regular semester or summer session. There is one exception to this policy. A student on academic probation will not be placed on academic suspension at the end of any semester or summer session during which he earns twice as many grade points as hours attempted for that term. This is equivalent to a term average of 2.00.

Following his second academic suspension, a student will be readmitted only on special approval by the Committee on Readmission on the basis of adequate evidence of ability, maturity, and motivation; this student must be out of Memphis State University one calendar year before his application for readmission will be considered.

Recognition for Academic Performance

There are several means available by

which students may obtain recognition for outstanding academic performance.

The Dean's List

The Dean's List is composed of those students who complete a minimum of fifteen semester hours with a grade point average of at least 3.4 for the semester.

Graduation With Distinction

Students who meet the requirements described below are eligible to graduate *cum laude*, *magna cum laude*, or *summa cum laude*:

1. Fulfillment of graduation requirements
2. Completion of a minimum of forty-five graded semester hours at Memphis State prior to the final semester
3. Final cumulative quality point averages as follow:

<i>cum laude</i>	3.2500 - 3.4999
<i>magna cum laude</i>	3.5000 - 3.7999
<i>summa cum laude</i>	3.8000 - 4.0000

A transfer student, in order to be eligible must have made the required average on all work taken at Memphis State University and must, in addition, have an over-all average which meets the honors requirements above: In no instance may the GPA used for determining graduation with distinction be higher than that earned on courses taken at Memphis State University.

Either the complete set of requirements governing graduation with distinction in this *Bulletin* or the complete set in the catalog governing the degree requirements for the student's graduation may be used to determine honors.

ADDITIONAL MEANS OF EARNING CREDIT

Advanced Placement Credit

Memphis State University participates in the Advanced Placement Program of the College Entrance Examination Board. A maximum of 24 semester hours may be given to qualified students on the basis of the examinations conducted by the Board. To be eligible for credit, an entering freshman must place in group three, four, or five of the CEEB Advanced Placement Tests.

Transfer Credit

In order for completed additional course work to be transferred from another university and recorded on the student's permanent record, the student *must request* that an evaluation of the additional course work be com-

pleted by the Transfer Affairs section of the Admissions Office. After the student has been admitted as a regular undergraduate, whether he is a beginning freshman or a transfer student, it is recommended that he consult with his advisor or the Transfer Affairs section of the Admissions Office if he anticipates enrolling at another college or university for the purpose of transferring credit to Memphis State University.

Correspondence or Extension Credit

Memphis State University accepts a limited number of credits earned by correspondence and/or extension, provided that such credits are taken from an institution which is a member of the University Extension Association, or the appropriate regional accrediting association. Memphis State University offers some work by extension but none by correspondence.

Prior to a student's initial registration at Memphis State University as a regular undergraduate (for official definition of "regular undergraduate," see page 20), the Office of the Dean of Admissions and Records will, at the time the student applies for admission, determine the acceptability of extension and/or correspondence credits earned at other institutions. After the student has been admitted as a regular undergraduate, whether he is a beginning freshman or a transfer student, he will not be given credit applicable to any Memphis State University degree for subsequent correspondence or extension courses unless he has obtained, *prior to his enrollment in such courses*, written permission from the dean of the college in which he is majoring.

No student is permitted to enroll for correspondence or extension courses while he is carrying a maximum load at Memphis State University.

Not more than one-fourth of the semester hours applied on the bachelor's degrees may be earned by correspondence or extension or a combination of the two. (This restriction does not apply to degree programs of the University College.)

A student who has completed thirty-three of the last sixty-six hours required residence and who lacks *no more* than four semester hours toward completion of degree requirements may earn these additional credits by acceptable correspondence or extension

work, or by residence at another approved institution. (For details of residence requirements, see page 47.)

University Credit by Examination CLEP Examinations

CLEP is a national program of credit-by-examination, sponsored by the College Entrance Examination Board. It offers students the opportunity to obtain recognition for college-level achievement. Some departments accept CLEP subject area examination credits as equivalent to departmental courses. No credit will be awarded for CLEP general examinations. Information on courses for which CLEP credit is available, along with information of fees charged, is available from the Academic Counseling Unit, the college level advisors, or the specific departments offering CLEP credits.

Departmental Examinations

Almost all courses in the undergraduate curricula, except for those of laboratory, research, and performance variety, are available for credit by examination. Students who believe they have already mastered the material of a particular course offered at Memphis State may take a departmentally administered examination for credit in that course. Students should consult the department chairman to make application and to obtain information concerning the courses offered.

The following regulations govern the granting of credit by examination:

1. Any enrolled student—full-time, part-time, or extension—who is in good academic standing may make application to take an examination for credit. A student who has been admitted but has not yet registered for courses at Memphis State will have the credit earned by examination posted after he has enrolled.
2. Permission to take a credit examination must be obtained from the chairman of the department in which credit is sought and from the dean of the college in which the student is seeking a degree. When permission is granted and after payment of the cost of the examination, the Dean of Admissions and Records will issue an official permit for the examination.
3. The form of the examination, the method of administering it, and the time of examination are left to the discretion of college departments.
4. To receive credit, the student's examination grade should be a grade equivalent of at least a C. There are no restrictions governing the number of credit hours which may be earned through credit by examination. Credit is indicated on the student's record as Cr.

Credit by Placement Examination

In departments in which placement examinations are given, a student may elect to receive credit for certain sequential courses numbered lower than the course in which the student was placed.

- (1) A student may take the proficiency test, which is given at the beginning of each semester, in order to best determine the initial course in which he should be placed. A student taking the proficiency test may apply immediately for the hours of credit warranted by the test score. He must make written application to the chairman of the department and make payment of appropriate fees for such credit to be recorded.
- (2) A student may enroll in a course at the level for which he feels previous training qualifies him. Recording of credit for the lower numbered course may be requested by the student upon completion of the course in which he was enrolled and is contingent upon his having earned a grade of C or higher in the course. *Written application to the chairman of the department and payment of appropriate fees is required for such credits to be recorded.*

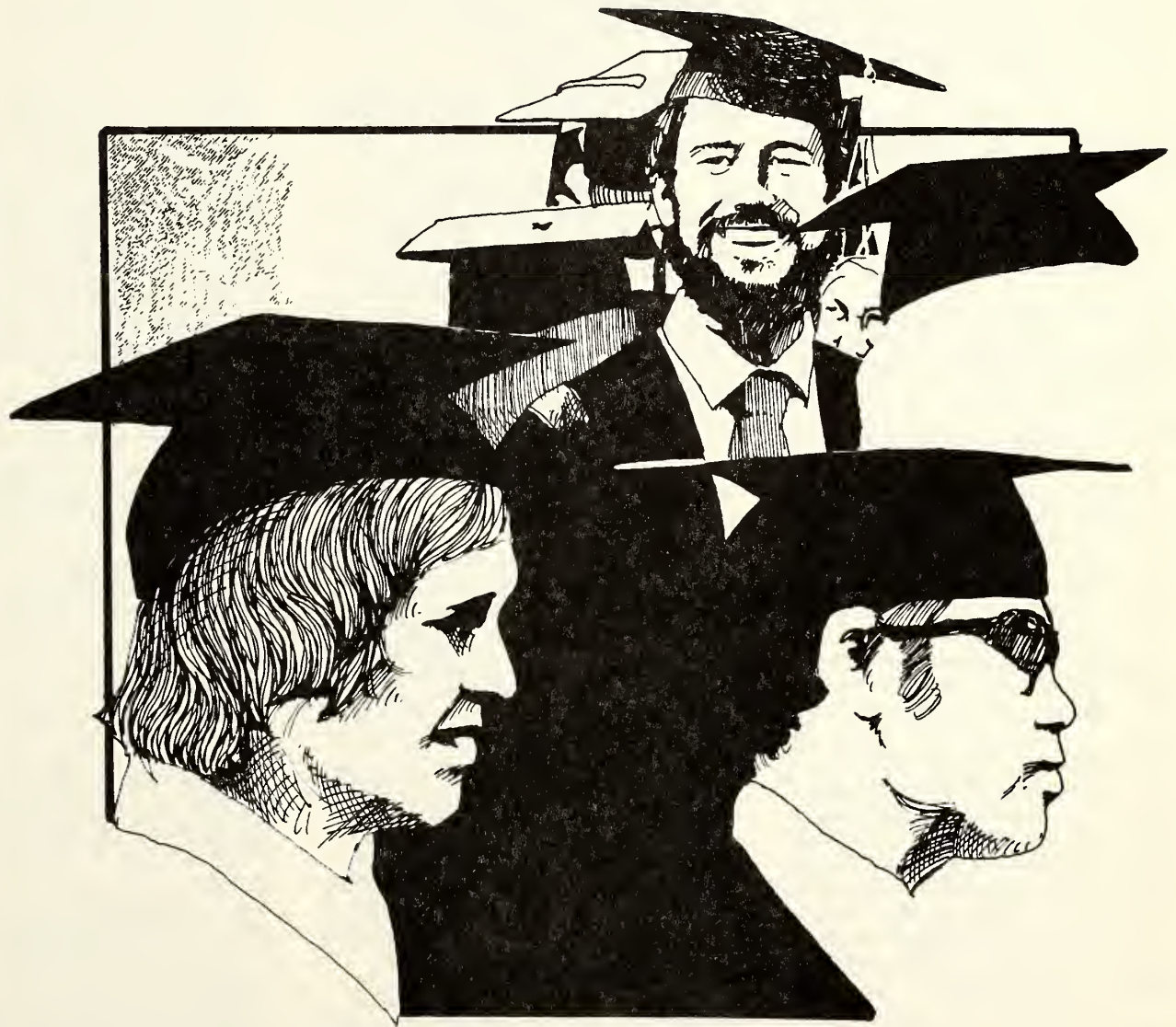
There is no fee charged for taking placement examinations; however, there is a fee for all placement credits which are recorded. For information on the fees, see page 28.

University College Credit for Experiential Learning

Students seeking degrees in the University College may be granted credit for college-level knowledge and understanding gained from work experience, life experience, or for certain non-traditional instruction. The student who wishes an assessment of such learning prepares a detailed and documented portfolio of those adult learning experiences which are to be evaluated and indicates the relationship of that knowledge to his Coordinated Study. *Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the examination procedures described above.* More detailed information can be obtained in the University College.

Bulletin

Memphis State University



DEGREES OFFERED

The degrees conferred by Memphis State University are offered through The College of Arts and Sciences, The College of Business Administration, The College of Communication and Fine Arts, The College of Education, The Herff College of Engineering, The University College, The Department of Nursing, The School of Law, and The Graduate School, as follows:

The College of Arts and Sciences: *Bachelor of Arts, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology.*

The College of Business Administration: *Bachelor of Business Administration.*

The College of Communication and Fine Arts: *Bachelor of Fine Arts, Bachelor of Arts, Bachelor of Music.*

The College of Education: *Bachelor of Science in Education, Bachelor of Science in Home Economics, Bachelor of Music Education.*

The Herff College of Engineering: *Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Engineering Technology, Bachelor of Science in Technology, Bachelor of Science in Geology.*

The University College: *Bachelor of Liberal Studies, Bachelor of Professional Studies.*

The Graduate School: *Doctor of Philosophy, Doctor of Education, Doctor of Musical Arts, Specialist in Education, Master of Arts, Master of Arts in Teaching, Master of Business Administration, Master of City and Regional Planning, Master of Education, Master of Fine Arts, Master of Music, Master of Music Education, Master of Public Administration, Master of Science.*

The School of Law: *Juris Doctor.*

The Department of Nursing: *Associate of Science, Bachelor of Science in Nursing.*

Courses required for all baccalaureate degrees are outlined in the section which follows; specific requirements for the individual degrees will be found in the sections of the *Bulletin* devoted to a description of the undergraduate colleges. Requirements for the Juris

Doctor degree will be found in the *Bulletin* of The School of Law; requirements for graduate degrees will be found in the *Bulletin* of The Graduate School.

GENERAL REQUIREMENTS

The following requirements have been established by the University for all undergraduate degrees offered. **In addition, the student must meet the requirements for his specific degree as established by the college or department in which it is offered.**

1. English

(12 semester hours.) All candidates for graduation at Memphis State University are required to complete English 1101 and 1102, or their equivalent, and any two of the following: English 2101, 2102, 2103, 2104, 2105, 2106 or their equivalent. These two sequences must be scheduled in consecutive semesters through the freshman and sophomore years or until completed. English 1101 and 1102 must be taken in sequence; no credit will be allowed for English 1102 until 1101 has been completed successfully.

2. History

(6 semester hours.) The State requires that students who did not earn one unit in American History in high school take it during their first or second year at the University. All students must complete successfully History 2601 and 2602, or their equivalent. These courses are not open to students who have earned less than 25 semester hours credit. This requirement is waived for engineering students and students enrolled in the University College except for those who did not earn at least one unit in American History in high school.

3. Mathematics

(3 semester hours.) All students must successfully complete a minimum of three semester credits in mathematics or Philosophy 1611.

4. Science

(6 semester hours.) All students must complete successfully a minimum of six semester credits in a natural, physical, or engineering science.

5. Physical Education

Four semester hours of physical education activity course credit are required of all regular undergraduate students during the first four semesters in the University except for the regular undergraduate student who is part-time or who is taking the majority of his hours

in the evening. These students are not exempt from the four semester hours of required physical education courses and are encouraged to schedule these courses as early as possible during their college residency.

The student may select the activity courses of his choice. With the exception of Physical Education 1001 (Conditioning), the student may not take the same activity course for credit more than once. He may receive credit in Physical Education 1001 for one or two terms, but he may not receive more than two semester hours of credit for this course during any one term.

A student may reduce the number of required physical education credits by the number of credits in Air Force ROTC completed with a passing grade. Two semester hours of physical education may be waived for students who earn two semester hours as members of the Memphis State University Marching Band. Band members are required to take a minimum of 2 semester hours of physical education and may not receive waivers for both band and Air Force ROTC.

No student other than a physical education major or minor or a recreation major may apply more than eight semester hours of physical education to the minimum degree requirement of 132 semester hours. A veteran receiving as much as six semester hours of health and physical education for service experience may apply two extra one hour service course credits toward the minimum of 132 semester hours required for graduation.

A student unable, for medical or other reasons, to take regular physical education is required to register for an adaptive class, or otherwise follow recommendations of the Office of Health Services.

6. English Proficiency

Every student at Memphis State is required to demonstrate his proficiency in English by making a grade of C or better in English 1101 and 1102 (or their equivalents, in the case of transfer students).

7. Quality Point Average

To receive a bachelor's degree from any of the colleges in the University, a student must have a quality point average of at least 2.000 (i.e., two quality points for every semester hour attempted); for the method of computing the quality point average, see page 43. If for any reason a student offers more

than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour of credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the University. Students who enter Memphis State University with advanced standing are required to maintain an average of C on all courses taken here.

8. Residence Requirements

A student will satisfy residence requirements for graduation by completing, at Memphis State University, 33 of the final 66 semester hours which are required for his degree. (A student transferring credits from a two-year collegiate institution must complete, as a requirement for the baccalaureate degree, a minimum of sixty semester hours in an accredited senior institution.) In addition, the student must meet the residence requirements for his specific degree as established by the college in which it is offered. Exceptions to residence requirements can be authorized by the appropriate dean.

Residence requirements for specific degrees within each college may be found in the section of the *Bulletin* beginning on page 49. For more details, the student should inquire in the office of the dean of the appropriate college.

PRE-PROFESSIONAL DEGREE PROGRAM

A student completing specified undergraduate work before entering medical, dental or pharmacy college may, after providing evidence of satisfactory completion of the first year of professional study, receive a baccalaureate degree from Memphis State University. The following provisions must be met *before enrollment in the professional school*:

1. The candidate must complete a minimum of 99 semester hours of pre-professional coursework; at least 24 semester hours of this coursework must be numbered above 2999.
2. The last two semesters of pre-professional coursework must be done at Memphis State University.
3. The candidate must meet all lower division requirements for the given baccalaureate degree.
4. The candidate must complete a minimum of 24 semester hours in a major area; at least 6

of these hours must be taken in residence at Memphis State University.

5. Formal application for the Memphis State University degree must be made to the dean of the college in which the candidate is enrolled. The dean must also approve in writing the choice of professional school.

- a. Minimum entrance requirements to the professional school must be 60 semester hours of undergraduate work.
- b. The professional school must be accredited by the appropriate recognized national association.

The candidate in the pre-professional degree program should notify the dean of his college of his intentions no later than the beginning of his sophomore year and should, with the guidance of his adviser, plan his program at that time.

REQUIREMENTS FOR TEACHER CERTIFICATION

An undergraduate student can receive a certification to teach in the elementary or secondary schools of Tennessee by completing all degree requirements in one of the following programs:

1. For programs leading to full certification in all areas except secondary, the student must enroll in the College of Education.

These programs will lead to a Bachelor of Science in Education Degree.

2. For programs leading to full certification at the secondary level, the student may enroll either (a) in the College of Education or (b) in the College that offers a major in a specific subject for which certification is desired.

- a. College of Education: The student must complete one or more endorsement areas and all other degree requirements outlined on page 73.

Such a program will lead to a Bachelor of Science in Education Degree or a Bachelor of Music Education Degree.

- b. Other Colleges: The student must complete the major program and all degree requirements of the college in which he is officially enrolled. In addition, he must complete requirements for a minor in Secondary Education, consisting of General Education (45 semester hours), Professional Education (24-33 semester hours) and a major endorsement in one specific subject. The requirements are listed in Sections I, II, and V beginning on page 74.

Such a program will lead to a degree designated by the college in which the degree is taken.

A student in any of the programs described above must (1) file an application to the teacher education program in Room 215, College of Education (see

page 71); (2) fulfill the requirements and application procedures for the student teaching program (see page 71); and (3) register in the Teacher Certification and Placement Office. For the method of computing the required 2.25 grade point average(s) in the endorsement(s), see page 43.

Graduate, special, and transfer students who wish certification should confer with the Director of Certification concerning their individual requirements, particularly the credit to be allowed on courses taken elsewhere or at an earlier time.

CATALOG APPLICABILITY

The degree requirements published in the undergraduate catalog issue of the Memphis State University *Bulletin* are valid for seven years from the beginning of the academic year to which the catalog applies. A student may complete the requirements for his initial degree under the provisions of any valid MSU catalog provided the effective date of that catalog is not earlier than his initial admission to MSU or some other accredited institution of higher learning. (This issue of the catalog is valid *until* fall of 1985.)

SECOND BACHELOR'S DEGREE

A student who has completed the requirements for one bachelor's degree from Memphis State University may receive a second bachelor's degree upon the completion of the curriculum prescribed in the current catalog or any other valid catalog approved by the appropriate degree-granting college. The two degrees may be conferred simultaneously or consecutively. Students who are seeking a second bachelor's degree and who have earned the initial bachelor's degree from another institution are subject to all catalog regulations applicable to transfer students.

If a student completes the requirements from a valid catalog for an additional major for a degree previously earned at Memphis State University, that major may be posted on the student's record, **if the student applies for the additional major.**

Bulletin

Memphis State University



The College of Arts and Sciences

WALTER RHEA SMITH, Ph.D., *Dean*

JAMES F. PAYNE, Ph.D.,
Associate Dean

Room 217, 219, Mitchell Hall

PURPOSES

The College of Arts and Sciences has three distinct functions within the framework of the University.

1) Its primary function is to offer a strong liberal arts program designed to help the student prepare himself for life in his own cultural setting by acquiring the means and the desire continually to enlarge his intellect and deepen his insights. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings. Men are men before they are lawyers, physicians, or manufacturers; and if you make them capable and sensible men, they will make themselves capable and sensible lawyers and physicians." It is the earnest belief of The College of Arts and Sciences that the essential preparation for any profession or vocation is a thorough foundation in those major fields of human interest which are included in the humanities, the natural sciences and the social sciences. The program of liberal studies at Memphis State University aims to provide the student with a store of factual knowledge; to introduce him to varying sets of principles; to stimulate him to think about and to evaluate these facts and principles; and to encourage him to order his own affairs and those of his society and with the talent, insight, and discrimination which he develops.

2) The College of Arts and Sciences offers this kind of education, not only to the candidates for its own degrees, but also to the students of other colleges of the University, all of whose degree plans call for courses in the liberal arts.

3) A third important function of the college is to offer preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, law, and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

ORGANIZATION OF THE COLLEGE

Departments

The College of Arts and Sciences

comprises fourteen departments: Anthropology, Biology, Chemistry, Criminal Justice, English, Foreign Languages (French, German, Greek, Italian, Latin, Portuguese, Russian, Spanish), Geography, History, Mathematical Sciences, Music, Philosophy, Physics, Political Science, Psychology, and Sociology and Social Work. Requirements for the majors and minors offered by these departments are listed in the section beginning on page 54.

CONCENTRATION GROUPS

The various offerings of the fourteen departments of The College of Arts and Sciences are organized into three concentration groups:

HUMANITIES: English, French, German, Greek, history, Italian, Latin, mathematics, philosophy, psychology, Russian, Spanish.

NATURAL SCIENCES: biology, chemistry, geology (administered by The Herff College of Engineering), physical geography, mathematics, physics.

SOCIAL SCIENCES: anthropology, criminal justice, economics (administered by The College of Business Administration), geography (other than physical), history, philosophy, political science, psychology, sociology.

Lower and Upper Divisions

The Lower Division comprises the freshman and sophomore years, the first four semesters of undergraduate work; courses in the lower division are numbered from 1000 through 2999. The Upper Division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the Upper Division are numbered above 2999.

The Institute of Governmental Studies and Research

(Department of Political Science)

The Institute of Governmental Studies and Research is a research and service agency operating in close coordination with the academic program of the university. It provides research and

consulting assistance to government agencies at the local, regional, state, national, and international levels. The focus of the Institute is upon public policy research and the dissemination of information of value to public decision makers. Working directly with the faculty of the Department of Political Science and with the availability of the faculty resources of other departments, the Institute undertakes functions of research and service germane to public policy and governmental affairs. The functions of the Institute include:

I. **Research:** The Institute sponsors public policy research in order to develop and disseminate new knowledge related to both theory and practice. It enters into contracts for "institutional" research in addition to encouraging members of the faculty to engage in individual research. Research findings are published in the Institute's *Public Affairs Forum*, and in periodic monographs.

II. **Consulting, advisory, and technical assistance:** The Institute renders services to a wide spectrum of decision-makers, including private citizens and organizations as well as officials and government agencies, on a contractual basis. These activities also help to relate teaching and research to the present and future needs of public institutions and provide expanded research opportunities for faculty and students.

III. **Community Service:** The Institute is actively engaged in community service by conducting post-graduate and professional training programs, institutes, and seminars for those already in public service. Of special interest to the Institute is the academic program which prepares students for employment in public service by placing them as interns with governmental agencies. This affords practical experience in the area of public service to graduate students, especially those interested in a public service career in Tennessee.

Chucalissa Indian Village and Museum

(C. H. Nash Museum)

This prehistoric Indian village and the

museum are operated by the Department of Anthropology as an educational and research facility. The indoor and outdoor exhibits are designed to reconstruct prehistoric Indian life in the Mid-South.

Students are trained in the techniques of excavation, restoration and museum operations. The courses taught are listed in the Department of Anthropology offerings. Chucalissa is located 17 miles from the main campus, west of Highway 61 South, at Mitchell Road. The facility is open to the public throughout the year.

ADMISSION

Requirements for admission to The College of Arts and Sciences are those set up for the University as a whole; see page 19.

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail on page 47. A transfer student in The College of Arts and Sciences must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor. These credits may be earned only through regular class enrollment for a letter grade.

FOREIGN LANGUAGE REQUIREMENTS

Specific requirements in foreign language for the degrees offered by The College of Arts and Sciences are as follows:

- A. BACHELOR OF ARTS AND BACHELOR OF SCIENCE: Twelve semester hours or the equivalent, in one foreign language.
- B. BACHELOR OF SCIENCE IN CHEMISTRY: German 1101, 1102, 2201 and 2203.
- C. BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY: Six semester hours in one foreign language.

A student already having proficiency in

a foreign language taught at Memphis State University (attained through high school or college courses, military service, private study, foreign residence, etc.) should enroll in a course at the level for which his training qualifies him. He can best determine this initial course by taking the proficiency test which is given at the beginning of each semester. (Detailed information is available from the chairman of the Department of Foreign Languages.) A student taking the proficiency test can apply immediately for the hours of credit warranted by the test score. Information pertaining to the charges for proficiency credit is given on page 28. If he chooses not to take the proficiency test, he may enroll in any course above the beginning one and upon completing it with a grade of 'C' or better apply for credit for the preceding courses. In either case, he *must make written application* to the chairman of the Department of Foreign Languages (application forms are available in the Foreign Language office). This regulation shall apply only to the lower division, and credit gained in this manner shall not exceed 12 semester hours in any one language with no more than 3 hours being allowed for each course.

This regulation will also apply to a student whose mother tongue is not English, with the following modifications: lower-division credit in the native language will be given when he has demonstrated the English proficiency required for graduation (see page 47 for details), and has proven his proficiency in the native language to the satisfaction of the Department of Foreign Languages. He then must make *written application to the chairman of the Department of Foreign Languages*.

PRE-PROFESSIONAL TRAINING

Standing committees of the faculty are available to advise students interested in preparing for careers in various professional areas; committee members,

representing departments of the University in which pre-professional training is given, advise students concerning specific programs required by the various professional schools. A student who completes successfully six semesters of undergraduate work before entering an accredited professional school may, upon presentation of evidence of satisfactory completion of the first year of professional education, be granted a baccalaureate degree from Memphis State University, provided that the requirements set forth in the pre-professional degree program described on page 47 are met. The advisory committees are as follows:

Pre-Medical — This committee advises students interested in careers in medicine, dentistry, nursing, pharmacy, optometry, veterinary medicine, medical technology, and related fields in the health sciences.

Pre-Law — In general accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students enrolling in The College of Arts and Sciences for their pre-law training are encouraged to enter immediately one of the degree programs offered by the college.

ACADEMIC PROGRAMS Degrees Offered

The College of Arts and Sciences offers four degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Science in Chemistry, and the Bachelor of Science in Medical Technology. Requirements for these degrees are outlined in the section beginning on page 53.

The following is an outline, by departments, of all majors and concentration areas offered by The College of Arts and Sciences.

ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major	Degree Offered
Anthropology	Anthropology		Bachelor of Arts Bachelor of Science
Biology	Biology	(1) Botany (2) Microbiology (3) Invertebrate Zoology/Entomology (4) Vertebrate Zoology	Bachelor of Arts Bachelor of Science
Chemistry	Chemistry		Bachelor of Arts Bachelor of Science Bachelor of Science in Chemistry
	Physical Science		Bachelor of Arts Bachelor of Science

Department	Major	Concentrations Within Major	Degree Offered
Institute of Criminal Justice	Criminal Justice	(1) Corrections (2) General Criminal Justice (3) Police	Bachelor of Arts
Economics	Economics		Bachelor of Arts
English	English		Bachelor of Arts
Foreign Language	French		Bachelor of Arts
	German		Bachelor of Arts
	*Russian		Bachelor of Arts
	Spanish		Bachelor of Arts
	Latin		Bachelor of Arts
Geography	Geography	(1) No Concentration OR (2) Cartography (3) Earth Science	Bachelor of Arts Bachelor of Science
History	History		Bachelor of Arts
Mathematical Sciences	Mathematical Sciences	(1) Mathematics (2) Applied Mathematics (3) Computer Science (4) Statistics	Bachelor of Arts Bachelor of Science
Philosophy	Philosophy		Bachelor of Arts
Physics	Physics		Bachelor of Arts Bachelor of Science
Political Science	Political Science		Bachelor of Arts
	Public Administration		Bachelor of Arts
Psychology	Psychology		Bachelor of Arts Bachelor of Science
Sociology and Social Work	Sociology	(1) General Sociology (2) Manpower (3) Social Research (4) Urban Sociology	Bachelor of Arts
	Social Work		Bachelor of Arts
Interdepartmental Programs	Comparative Literature		Bachelor of Arts
	Medical Technology		Bachelor of Science in Medical Technology

* A major in Russian requires a second major.

INTERDEPARTMENTAL PROGRAMS

Comparative Literature

The program in Comparative Literature is conducted through the cooperation of the Departments of English, Foreign Languages (Classics, French, German, Italian, Russian, and Spanish), History, Philosophy, and Speech and Drama. The program gives qualified students the opportunity to study Western Literature within an international context while developing simultaneously a particular competence in two specific literatures. The program offers a broad range of courses and allows the individual student considerable freedom in structuring his major. While studying the two literatures of his choice, the student may wish to concentrate on an aspect of Western Literature common to both. He might, for example, concentrate on a period (e.g., the Renaissance) or a movement (e.g., Naturalism) or a

genre (e.g., the epic). Whatever the student's program in Comparative Literature, he can expect to acquire a broader sense of literary history and tradition than may be derived from the study of a single literature.

Courses offered by the program fall into four general classes:

1. Courses in foreign literature read in English translation. These courses are taught entirely in English and do not require the use of a foreign language.
2. Courses in foreign literature read in the original language. Proficiency in the foreign language is required.
3. Courses in English and American Literature.
4. Special courses related to literature in the areas of history, philosophy, and theatre.

For the major in comparative literature see page 54.

Criminal Justice

The Institute of Criminal Justice is an academic unit within The College of Arts and Sciences. The major in criminal justice leads to the Bachelor of Arts degree; it is an interdisciplinary program combining liberal arts courses and introductory professional courses. The purpose of the Institute's program is to prepare men and women presently serving or preparing to serve society in the field of criminal justice to the extent that such specialization is compatible with the philosophy of The College of Arts and Sciences. In addition, the Institute of Criminal Justice provides short courses, seminars, conferences, in-service courses, and other programs which are relevant to the criminal justice field. Students pursuing a degree in this field must meet the

University admission requirements. For the major and minor in criminal justice see page 55.

International Studies

See *Independent Programs* on page 91.

Urban Studies

The program is offered through the cooperation of the Departments of Anthropology, Economics, Geography, History, Political Science, and Sociology. The program provides students with opportunities to study the city within a multi-disciplinary framework. See *Independent Programs* on page 92.

TEACHER PREPARATION

Students enrolled in a degree program of The College of Arts and Sciences who wish to prepare themselves for teaching careers in the secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined under Requirements for Teacher Certification beginning on page 47. An application to enter the teacher education program must be filed with the education analyst, room 211-A, The College of Education.

DEGREE REQUIREMENTS

Bachelor of Arts

To qualify for the degree of Bachelor of Arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 42 semester hours must be in courses from the Upper Division (those numbered above 2999). Not more than 42 semester hours in any one subject will be counted toward a degree. No more than 18 semester hours may be taken outside The College of Arts and Sciences except for courses required for either (1) a minor or (2) teacher certification, but not both; the required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follows:

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: 12 semester hours, or the equivalent, in one foreign language; for details see page 51.

History 2601, 2602.

Natural science: 3 courses from at least 2 departments; if 2 are from the same department, they must constitute a sequence. Courses from which these must be selected are Biology

1200, 1600; Chemistry 1051, 1052; or Chemistry 1111, 1112; or Physical Science 1031, 1032; Geography 1101, 1102; Geography 1101, 1102; Geology 1101, 1201 (not more than two courses may be taken in geography and/or geology courses to meet this requirement); Physics 1111, 1112, or 1811, 1812, or 2111, 2112, or 2511, 2512.

Social science: 15 semester hours with no more than 6 semester hours in a single discipline. Courses from which these must be selected are Anthropology 1100 or 1300, and Anthropology 1200 or 1400; Criminal Justice 1100; Economics 1010, 2110, 2120; Geography 2301, 2311; History 1301, 1302; International Studies 1101, 1102; Political Science 1101, 2211, 2301, 2501; Psychology 1101, 1102; Sociology 1111, 1112; no more than 6 hours from the following courses: Journalism 1011, 1012; Speech 1781, 1782.

Mathematics/Philosophy: 9 semester hours as follows: 3 of mathematics plus 3 of philosophy plus 3 of either. The following courses are acceptable: Mathematics 1181, 1182, 1203 or 1211, 1212, 1312, 1321, 1401, 1402, 2291, 2321, 2322, 2401, 2402, 2581; Philosophy 1111, 1611.

Two of the following courses: Art 1101; Music History 1101; Speech 1551.

Physical Education: for details see page 46.

NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements.

Completion of requirements for any major offered in The College of Arts and Sciences.

Electives to bring the total to 132 semester hours.

Bachelor of Science

The Bachelor of Science degree may be awarded only to students majoring in one of the following disciplines: anthropology, biology, chemistry, geography, mathematics, physics, or psychology. Students majoring in anthropology, geography, or psychology (for the Bachelor of Science degree) must minor in either biology, chemistry, mathematics, or physics.

To qualify for the degree of Bachelor of Science the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 42 semester hours must be in courses from the Upper Division (those numbered above 2999). No more than 42 semester hours in any one subject will be counted toward a degree. No more than 18 semester hours may be taken outside The College of Arts and Sciences except for courses required for either (1) a minor or (2) teacher certification, but not both; the required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follows:

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: 12 semester hours, or the equivalent, in one foreign language; for details see page 51.

History 2601, 2602.

Mathematics: 6 semester hours selected from the following: Mathematics 1181, 1182, 1203 or 1211, 1212, 1312, 1321, 1401, 1402, 2291, 2321, 2322, 2401, 2402, 2581.

Natural science: One of the following two-semester sequences outside the major field: Biology 1200, 1600; Chemistry 1051, 1052; Chemistry 1111, 1112; Geography 1101, 1102; Geology 1101, 1201; Physics 1111, 1112; or 1811, 1812; or 2111, 2112, or 2511, 2512.

Social science: 12 semester hours from the following with not more than 6 hours in a single discipline: Anthropology 1100 or 1300, and Anthropology 1200 or 1400; Criminal Justice 1100; Economics 1010, 2110, 2120; Geography 2301, 2311; History 1301, 1302; International Studies 1101, 1102; Philosophy 1111, 1611; Political Science 1101, 2211, 2301, 2501; Psychology 1101, 1102; Sociology 1111, 1112; no more than 6 hours from the following courses: Journalism 1011, 1012; Speech 1781, 1782.

Two of the following courses: Art 1101; Music History 1101; Speech 1551.

Physical Education: for details see page 46.

(NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements.)

Completion of the requirements for a major in one of the following disciplines: anthropology, biology, chemistry, geography, mathematics, physics, or psychology.

Students majoring in anthropology, geography, or psychology (for a Bachelor of Science degree) must complete a minor in either biology, chemistry, mathematics, or physics.

Electives to bring the total to 132 semester hours.

Bachelor of Science in Chemistry

To qualify for the degree of Bachelor of Science in Chemistry, the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 2999). No more than 18 semester hours may be in courses outside The College of Art and Sciences except for courses required for teacher certification. The required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follows:

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: German 1101, 1102, 2201, and 2203.

History 2601, 2602.

Mathematics 1212, 1321, 2321, 2322.

Physics 2111, 2112 (by permission); or 2511, 2512.

Chemistry 1111, 1112, 3200, 3301, 3311, 3312, 3411, 3412, 3601, 3602, 3603, 4111, 4220, 4900, and five additional hours in senior chemistry

courses. A maximum of three hours credit in advanced electives in physics or mathematics can be substituted for equal credit in senior chemistry courses.

Three semester hours from one and six semester hours from another of the following areas: anthropology, economics, geography (excluding earth science courses and Geography 3501, 3502, and 3511), history (excluding History 2601 and 2602), philosophy, political science, psychology, and sociology.

One of the following courses: Art 1101; Music History 1101; Speech 1551.

Physical Education: for details see page 46.

(NOTE): The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements.)

Completion of the requirements for a minor in biology, physics or mathematics.

Electives to bring the total to 132 semester hours.

Bachelor of Science in Medical Technology

For students interested in careers in medical technology, The College of Arts and Sciences offers a three-year preparatory curriculum, the successful completion of which will qualify them to enter any school of medical technology approved by the American Medical Association Council on Medical Education. After completion of the curriculum in the school of medical technology, the student is eligible for examination and certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

The University maintains an affiliation in Memphis with the Schools of Medical Technology of the Baptist Memorial Hospital, Methodist Hospital, and St. Joseph Hospital, all of which are accredited. Only those students who enroll in the School of Medical Technology of one of these hospitals can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University. Should a student decide to enter one of these schools after completing successfully the preparatory curriculum, he should apply directly to the school of his choice nine to twelve months in advance of the time he wishes to enter. After the completion of his clinical year he may apply for the degree of Bachelor of Science in Medical Technology from this University.

Specific requirements for the preparatory curriculum in medical technology and the additional requirements for those working toward a baccalaureate degree are as follows:

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign Language: 6 semester hours in one language

History 2601, 2602

Psychology 1101 or Sociology 1111 or Philoso-

phy 1111

Psychology 1102

Mathematics 1212

Biology 1600, 2000, 3070, 3500, 3730, 3800 4440

Chemistry 1111, 1112, 3311, 3301, 3312, 3302,

3400

Physics 2111, 2112

Two of the following courses: Art 1101, MUHL 1101, Speech 1551

Physical Education: see page 46 for details

(NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements.)

(Courses strongly recommended are: Psychology 2301, Biology 4444, Speech 1311, Biochemistry 4511, Management 3110 and 4210)

IMPORTANT NOTE: *The preparatory curriculum in medical technology does NOT qualify a student for the three-year pre-professional degree program described on page 47 of this Bulletin. Only those students who enroll in the Schools of Medical Technology of the Baptist Memorial Hospital, the Methodist Hospital, or St. Joseph Hospital, all located in Memphis, can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University.*

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

Listed below are the specific course requirements for all major and minors offered in The College of Arts and Sciences. A minimum grade of C is required in every course applicable toward a major or minor (including co-requisites), except in beginning courses and in sophomore English.

Every student should be aware that the mere completion of courses outlined below with a grade of C or better does not guarantee him classification as a major or minor in the discipline concerned; *he must be recommended by the chairman of the department in which the major or minor is sought.* If, in the opinion of the chairman, the quality of the student's work is not high enough, he may require additional work, the repetition of courses, or other evidences of superior scholarship.

AFRICAN STUDIES

See *Independent Programs*, page 91.

ANTHROPOLOGY

The Major: 30 semester hours in anthropology courses, including Anthropology 1100 or 1300, 1200 or 1400, 3200, 4065; and 18 additional semester hours, at least 6 of which must be at the 4000 level.

The Minor: 18 semester hours in anthropology courses, including Anthropology 1100 or 1300, 1200 or 1400, 3200, and 4065.

Honors Program: see page 97.

BIOLOGY

The Major: 36 semester hours in Biology courses, including Biology 1200, 1600, 2000, 3070; Chemistry 1111, 1112, 3301, 3302, 3311, and 3312, and the election of one of

the following areas of concentration and the meeting of the specific requirements for that area. Completion of both Biology 1200 and Biology 1600 shall be required before enrolling in any upper-division course of 3000 level, or above, which is acceptable for a major.

a. Botany

Biology 3240, 3500 and Biology electives (chosen in conference with the adviser), including one field course, to bring the total semester hours in Biology to 36.

b. Microbiology

Biology 3500, 3800, and Biology electives (chosen in conference with the adviser), to bring the total semester hours in Biology to 36.

c. Invertebrate Zoology or Entomology

Biology 3800, 3900, and Biology electives (chosen in conference with the adviser), to bring the total semester hours in Biology to 36.

d. Vertebrate Zoology

Biology 3610, 3620, and Biology electives (chosen in conference with the adviser), to bring the total semester hours in Biology to 36.

The Minor: 18 semester hours in Biology courses (including Biology 1200 and 1600), 7 of which must be from the upper division. Completion of both Biology 1200 and 1600 shall be required before enrolling in any upper division course of 3000 level, or above, which is acceptable for a minor. Either 3100 or 4100 may be included in meeting requirements, but not both.

CHEMISTRY

(The requirements listed below are for majors and minors for the Bachelor of Arts or Bachelor of Science degrees; for detailed requirements for the Bachelor of Science in Chemistry, a professional degree, see page 53).

CHEMISTRY

The Major: 32 semester hours in chemistry courses, plus related courses, outlined below:

Chemistry 1111, 1112, 3301, 3302 or 3601, 3311, 3312, and sufficient additional semester hours from the upper division.

Mathematics 1212, 1321, 2321, 2322.

Physics 2511, 2512 (or 2111, 2112 if approved by the chairman of the Department of Chemistry.)

The Minor: 20 semester hours in chemistry courses, including Chemistry 1111, 1112, 3301, 3302 or 3601, 3311, 3312, and a three-or-four-semester hour course from the upper division.

PHYSICAL SCIENCE

A major in physical science is suggested for those students who plan to teach the sciences in high school but do not desire to major in either chemistry or physics.

The Major: 32 semester hours in chemistry and physics courses, including Chemistry 1111, 1112; Physics 2511, 2512 (or Physics 2111, 2112); and additional hours in chemistry and/or physics courses from the upper division to bring the total to 32 semester hours.

The Minor: 20 semester hours in chemistry and physics courses, of which at least 8 semester hours must be from the upper division.

COMPARATIVE LITERATURE

The Major

Lower division: There are no specific lower-division requirements beyond those of The College of Arts and Sciences, but the student interested in majoring in Comparative Literature is advised to advance as far as possible in the study of the foreign language of his choice before the end of the

sophomore year. It would be to his advantage to gain a reading proficiency in a second language as well.

Upper division: A minimum of 8 approved courses (24 semester hours) so arranged as to provide concentration in two literatures (at least 9 semester hours in each). One of these must be a foreign literature in the original language developed into the 4000 level. Courses which may be included in a Comparative Literature major:

1. Any course listed under *Comparative Literature*.
2. Any upper-division literature course in Greek, Latin, French, German, Italian, Russian, and Spanish.*
3. Any upper-division literature course in the Department of English.
4. Classics 3413 and 3414, Speech and Drama 3551 and 3552, Philosophy 3212 and 3451, History 4501 and 4502, Music 4131 and 4133.

The Minor

Lower division: No specific requirements beyond those of The College of Arts and Sciences.

Upper division: Six courses (18 semester hours) chosen from those available to the major and approved by the director of the program.

CRIMINAL JUSTICE

The Major: Criminal Justice: 36 hours of specific courses in Criminal Justice, Sociology, Psychology, and Political Science, including Criminal Justice 1100, Sociology 1111 and 3521, Psychology 1101 and 3102, plus courses from one of the following areas of concentration.

- a. *Corrections:* ICJ3128, 3424, 3521, 4425, and 4532 plus 6 additional upper-division hours of Criminal Justice courses.
- b. *Police:* ICJ3226, 3521, 3522, and 4231; Political Science 3211, plus 6 additional upper-division hours of Criminal Justice courses.
- c. *General Criminal Justice:* ICJ3226, 3326, 3426, 3521; Political Science 4215; plus 6 additional upper-division hours of Criminal Justice courses.

The Minor: 18 hours of Criminal Justice courses including ICJ 1100.

ECONOMICS

The Major: 30 semester hours including Economics 1010 or 2110, 2120, 3310, 3320, Mathematics 1203, and 15 additional semester hours in economics courses from the upper division as approved by the department chairman. The student has the option of substituting 6 semester hours in approved upper-division social science courses for 6 semester hours in economics from the upper division.

The Minor: 18 semester hours in economics courses, including Economics 1010 or 2110, 2120, 3310, 3320, and 2 additional courses from the upper division as approved by the department chairman.

ENGLISH

The Major: 24 semester hours in upper-division English courses, including hours as specified from each of the following groups, each student's program to be arranged so as to provide the greatest possible chronological scope:

1. English Literature (6)
 - A. (3): English 3211, 3212, 3213, or 3214.
 - B. (3): English 3221, 3222, 3223, or 3224.
2. American Literature (3): English 3321, 3322, 4321, or 4322.
3. Major Authors (3): English 4231, 4232, 4233, or 4234.
4. Special Studies (3).
 - A. Language: English 3501, 4501, or 4602.
 - or
 - B. Genre: English 3341, 3342, 3441, 4241, 4242, 4251, 4252, or 4351.
5. Three additional upper-division English courses (9), selections to be made with approval of adviser in light of choices made from first four groups.

The Minor: 15 semester hours in upper-division English courses, including hours as specified from each of the following groups:

1. Special Studies (3).
 - A. Language: English 3501, 4501, or 4602.
 - or
 - B. Genre: English 3341, 3342, 3441, 4241, 4242, 4251, 4252, or 4351.
2. American Literature (3): English 3321 or 3322.
3. English Literature (3): English 3211, 3212, 3213, 3214, 3221, 3222, 3223, or 3224.
4. Major Authors (3): English 4231, 4232, 4233, or 4234.
5. One additional upper-division English course (except one from the century chosen in the Group 3 option) (3).

Students who intend to pursue graduate studies are strongly advised to take courses both in Shakespeare and in Milton or Chaucer and to take courses both in genre and in language.

NOTE: Students who wish to satisfy the requirements for both English major and for endorsement to teach English in high school within the minimum of 24 hours must choose either English 3321 or 4321; and either 3322 or 4322 from Group 2; English 4232 or 4233 from Group 3; and English 3501, 4501, and 4602 from Group 4A.

Honors Program: see page 102.

FOREIGN LANGUAGES: The Department of Foreign Languages offers majors and minors in French, German, Latin, Russian, Spanish and Comparative Literature. Minors are also offered in Greek and Italian.

Requirements for majors and minors are as follows:

FRENCH

The Major: 24 semester hours in upper-division French courses, including French 3301 (or 3302), 3401, 3411, 3412. Completion of at least two of these four courses is required before enrolling in other upper-division French courses.

The Minor: 12 semester hours in upper-division French courses.

GERMAN

The Major: 24 semester hours in upper-division German courses, including German 3301 (or 3302), 3410, 3411, and 3412. Completion of at least two of these four courses is required before enrolling in other upper-division German courses.

The Minor: 12 semester hours in upper-division German courses.

GREEK

The Minor: 9 semester hours in upper-division Greek courses.

ITALIAN

The Minor: 12 semester hours in upper-division Italian courses.

LATIN

The Major: 18 semester hours in upper-division Latin courses. Six semester hours in

Elementary Greek are recommended in addition.

The Minor: 9 semester hours in upper-division Latin courses.

RUSSIAN

The Major: 24 semester hours in upper-division Russian courses, beginning with 3301 and 3302. The Russian major must be taken in conjunction with a major in another field.

The Minor: 12 semester hours in upper-division Russian courses.

SPANISH

The Major: 24 semester hours in upper-division Spanish courses, including Spanish 3301 (or 3302), 3411, 3412, and 3511 (or 3512). Completion of at least two of these courses is required before enrolling in other upper-division Spanish courses.

The Minor: 12 semester hours in upper-division Spanish courses.

FRENCH (See Foreign Languages).

GEOGRAPHY

The Major: 32 semester hours in geography courses, including Geography 1101 and 1102 (or Geology 1101), and completion of the requirements in one of the following areas of concentration:

- (a) **GEOGRAPHY:** 24 semester hours, at least 18 of which must be taken from the upper division. Credit must be shown in each of these areas: regional, topical (systematic), and technique.
- (b) **CARTOGRAPHY:** 24 semester hours, including Geography 3501, 3502, 4501, 4502, 4511, 4521; plus 6 hours in regional and/or topical courses.
- (c) **EARTH SCIENCE:** 24 semester hours, including Geography 4111, 4121, 4122, 4131, 4501, 4511; plus 6 hours in regional and/or topical courses.

The Minor: Geography: 20 semester hours in geography courses, at least 9 of which must be taken from the upper division.

GERMAN (See Foreign Languages).

HISTORY

The Major: 30 semester hours in history courses, including History 1301, 1302, 2601, 2602, and 18 additional semester hours from the upper division with a maximum of 12 semester hours in any one field (United States, Latin American, European, African, Far Eastern).

The Minor: 24 semester hours in history courses, including History 1301, 1302, 2601, 2602, and 12 additional semester hours from the upper division.

Honors Program: see page 107.

INTERNATIONAL RELATIONS

See *Independent Programs*, page 91.

LATIN (See Foreign Languages).

LATIN AMERICAN STUDIES

See *Independent Programs*, page 92.

MATHEMATICAL SCIENCES

The Major: 36 to 42 semester hours in mathematical science courses including Mathematics 1321, 2321, 2322, and 4241 (for departmental honors students, 38 semester hours including Mathematics 1401, 1402, 2401, and 2402); Chemistry 1111 and 1112 or Physics 2511 and 2512 (for honors students, two approved one-semester courses containing significant mathematical applications, taken in a department other than Mathematical Sciences); and completion of the requirements in one of the following

*Literature courses in the Department of Foreign Languages offered both in English translation and in the original language may be taken only once for credit.

areas of concentration:

(a) **Mathematics:**

Mathematics 3111; two of the following courses—Mathematics 4261, 4351, 4361 and 4411; and 9 semester hours of upper-division electives in the mathematical sciences.

(b) **Applied Mathematics:**

Mathematics 3111, 3391, 4391, 4392; and 9 semester hours of upper-division electives in the mathematical sciences.

(c) **Computer Sciences:**

Mathematics 4611 or 4631 plus 24 semester hours from a list which includes all MATH 47— courses and the following courses from outside the department: ELEC 3220, 4222; MGMT 4780, 4790.

(d) **Statistics:**

Mathematics 4611, 4612, 4613, 4631, 4671, 4710; and 3 semester hours of upper-division electives in the mathematical sciences.

The Minor: 18 semester hours in mathematics courses, including either Mathematics 1321, 2321, and 2322; or 6 semester hours from the upper division.

Honors Program: For additional requirements, see page 109.

PHILOSOPHY

The Major: 30 semester hours in philosophy courses, including Philosophy 1111, 1611, 2411 or 3511, 3211, 3311, and 15 additional hours.

The Minor: 18 semester hours in philosophy courses, including Philosophy 1111, 1611, and 12 additional semester hours, at least 9 of which must be from the upper division.

Honors Program: see page 110.

PHYSICAL SCIENCE (See Chemistry)

PHYSICS

The Major: 32 semester hours in physics courses, including Physics 2511, 2512 (Physics 2111, 2112 are acceptable but not recommended) and additional upper-division courses. Chemistry 1111 and 1112.

Mathematics 1321, 2321, 2322, and 3391, or equivalent courses.

The Minor: 20 semester hours in physics courses, including Physics 2511, 2512 (Physics 2111, 2112 are acceptable but not recommended), and additional upper-division courses.

POLITICAL SCIENCE

The Majors:

POLITICAL SCIENCE: 30 semester hours in political science courses, including Political Science 1101, 2211, either 2301 or 2501, 4100, and a minimum of 18 additional semester hours at least 15 of which must be from the upper division. Only 9 semester hours of internship courses may be counted toward the 30 semester hour requirement.

PUBLIC ADMINISTRATION: 30 semester hours in political science courses, including Political Science 2211, 3213, 3601, 4100, and 18 additional semester hours, 9 of which are to be selected from the following: Political Science 3211, 3224, 4213, 4214, 4221, 4224, 4231, 4602, 4603, 4604, 4611, and 4702. Only 9 semester hours of internship courses may be counted toward the 30 semester hour requirement.

The Minors:

POLITICAL SCIENCE: 18 semester hours in political science courses, including Political Science 1101 and at least 6 semester hours from the upper division.

PUBLIC ADMINISTRATION: 18 semester hours in political science courses including Political Science 2211, 3213, 3601 and 9 additional semester hours to be selected from the following: Political Science 3211, 3224, 4213, 4214, 4221, 4224, 4231, 4602, 4603, 4604, 4611, and 4702.

Honors Program: see page 112.

PSYCHOLOGY

The Major: 32 semester hours in psychology courses, including Psychology 1101, 1102, 2301, 2302, 4101, and 16 additional semester hours, of which at least 6 must be from other 3000 level courses and at least 4 must be from 4200 level courses. It is strongly recommended that psychology majors complete all lower division courses prior to enrolling in any upper-division course.

The Minor: 20 semester hours, including Psychology 1101, 1102, 2301 (or its equivalent), 2302, and 7 additional hours.

Honors Program: see page 114.

SOCIOLOGY AND SOCIAL WORK

SOCIOLOGY

IMPORTANT NOTE: The social research minor may be elected only by students who have majors in the social sciences.

The Major: 30 semester hours in sociology, including Sociology 1111, 3311, 3322, 4210 or 4211, and completion of requirements in one of the following areas:

GENERAL SOCIOLOGY: 18 additional semester hours in sociology.

MANPOWER: This concentration is open to the student who majors in sociology and who is accepted into the interdisciplinary Manpower program. Sociology 3831, 4842, and 12 additional semester hours in sociology; plus Management 3110, 3810, and 3811.

SOCIAL RESEARCH: 9 additional semester hours from among the following: Sociology 4340, 4632, 4730, 4912; plus 9 additional semester hours in sociology.

URBAN SOCIOLOGY: This concentration is open to the student who elects a double major in Sociology and Urban Studies. Sociology 4631, 4620, 4420, and 9 additional semester hours in sociology; plus 24 additional semester hours from the Urban Studies Curriculum.

The Minors:

SOCIOLOGY: 18 semester hours in sociology, including Sociology 1111.

SOCIAL RESEARCH: 18 semester hours in sociology, including Sociology 1111, 3311, 3322, and 9 additional hours selected from the following: Sociology 4340, 4632, 4730, 4912.

SOCIAL WORK

The Major: 30 semester hours in Sociology, Social Work, and related fields, including Sociology 1111; Social Work 2911, 3901, 3902, 3903, 3904, 4830; and one course in social research plus at least six additional hours, to be approved by advisor.

The Minor: 18 semester hours in Sociology and Social Work courses, including Sociology 1111, Social Work 2911, 3901, 3902, and six additional semester hours in Social Work courses.

SPANISH (See Foreign Languages)

URBAN STUDIES

See *Independent Programs*, page 92.

The College of Business Administration

ROBERT M. CROWE, B.S., M.A., Ph.D.,
Dean

*Room 432, The College of Business
Administration Building*

PURPOSES

The function of The College of Business Administration is to provide the basic education necessary to prepare a person to enter the profession of business. A significant characteristic of the college is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. From forty to sixty per cent of the course work taken for the Bachelor of Business Administration degree (a required minimum of 40 per cent) is taken in such areas as the humanities, the natural and physical sciences, and the social sciences.

The undergraduate and graduate programs of the College are fully accredited by the American Assembly of Collegiate Schools of Business.

Areas of Professional Training

The College of Business Administration offers a wide selection of general and specialized fields, each of which has programs designed to prepare students for a variety of careers:

CAREERS IN ACCOUNTANCY: Accounting is a vital activity in any business. The increased complexity of financial records resulting from federal regulations and the expanded use of automation necessitates a highly technical background for persons who prepare financial reports. It administers the testing program of The American Institute of Certified Public Accountants, the national scope of which enables students to check their individual ratings with national averages. Graduates with a major in accounting are qualified to take the Certified Public Accountants' examination in Tennessee; students desiring a career in public accounting are encouraged to intern with a public accounting firm in their senior year.

CAREERS IN ECONOMICS: A sound understanding of our economic system is essential for today's businessman. In addition, business employs the professional economist for forecasting and explaining the effect of changing economic variables. Many economists are employed by government for comparable reasons. Training in economics is designed to increase awareness of eco-

omic problems and encourage the student to analyze alternative solutions for himself.

CAREERS IN FINANCE, INSURANCE, AND REAL ESTATE: Due to the greatly increased recognition given to managing the financial operations of a business, with its increased complexity and newer techniques, considerable demand has developed for those skilled in managing the financial flows of a business.

The risk factor involved in both business and life is beyond man's control. To meet this challenge courses in insurance can be highly rewarding for the college graduate. The department offers preparation for careers in property insurance, life insurance, and risk management.

The ever-increasing growth in population, with a constant supply of real estate, demands that the businessman have a working knowledge of real estate problems. Courses are offered to prepare students for both private practice and to function as an integral part of a business organization.

CAREERS IN MANAGEMENT: The effective manager of today must have competence in many disciplines, an understanding of a wide variety of relationships and the ability to analyze evolving management requirements.

Effective adaptation of management to such emergent conditions as the continued growth of science and technology, population, and large scale organization demands a thorough knowledge of management process theory.

The management programs of study are designed to provide professional preparation in the management of business and economic affairs. Opportunities are increasing, as well, in governmental agencies, foundations, hospitals, and other types of organizations.

CAREERS IN MARKETING: One of the phenomena observed among college graduates is their frequent gravitation toward careers in marketing despite the field for which they prepared while in college. The Department of Marketing provides an educational experience for those who are interest-

ed in such areas as retailing, wholesaling, industrial marketing, purchasing, advertising, sales management, logistics, and marketing research. Careers in marketing provide a high degree of freedom, mobility, security, challenge, and a high level of monetary reward.

Students who wish to teach marketing (distributive education) in high schools, technical institutes, and junior colleges should minor in Distributive Education in The College of Education. Certification requirements are listed on page 69. For information concerning careers in this field students should see the chairman of the Department of Distributive Education.

CAREERS AS PROFESSIONAL SECRETARIES AND OFFICE MANAGERS: The value of a secretary, either man or woman, with a university degree is receiving increasing recognition by business executives; the same thing is true in the field of office management. Thorough training in both fields is provided by the Department of Office Administration.

CAREERS IN BUSINESS EDUCATION: In cooperation with the College of Education, the College of Business Administration assists in the preparation of students to teach business subjects in the secondary schools. A student with a major in any one of the six departments of the College can, by completing the certification requirements as outlined on page 70 of this Bulletin, qualify for a high school teaching certificate.

CAREERS IN INTERNATIONAL BUSINESS: The College of Business Administration, with the cooperation of the Office of International Studies, offers an interdisciplinary program leading to the Bachelor of Business Administration degree with a major in international business. The International Business Program provides the student with broad theoretical and practical skills that will prepare him to meet challenges of a career in an international business field. Students will, when possible, be afforded the opportunity of working in an international company, in this country or abroad, in order to acquire practical, first-hand knowledge of international operations.

The Pre-Law Curriculum

A student enrolled in The College of Business Administration who wishes to prepare himself for entrance to law school will qualify for the Bachelor of Business Administration degree. Any major in The College of Business Administration may be selected, and the regular program for that major, as outlined in the *Bulletin*, should be followed.

ORGANIZATION OF THE COLLEGE

The College of Business Administration comprises six academic departments: Accountancy; Finance, Insurance and Real Estate; Economics; Management; Marketing; and Office Administration. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 60. The interdisciplinary International Business Program centered in this college offers an undergraduate major in International Business; requirements are listed in the section pertaining to departmental requirements. In addition there are two research departments: Bureau of Business and Economic Research, and Center for Manpower Studies.

The college curriculum is organized into a lower division and an upper division:

THE LOWER DIVISION comprises the freshman and sophomore years, the first four semesters of University work. Courses offered in the lower division are numbered from 1000 through 2999, and the student must register consistently for all lower division requirements until they are completed.

THE UPPER DIVISION comprises the junior and senior years of undergraduate work; courses offered in the upper division are numbered from 3000 through 4999. **One of the prerequisites for any 3000 or 4000 numbered courses is junior standing (minimum of 55 semester hours credit).**

Academic Advising

Every student entering the College of Business Administration will be assigned an advisor by the College's Advising Office. The advisor will assist the student in the selection of appropriate courses, and provide the opportunity for meaningful discussion regarding career goals, past academic experience and future academic growth and progress as it relates to the student's development. This assistance, however, does not in any way relieve the student of the primary responsibility of studying the *Bulletin* himself and ful-

filling all the requirements for his particular goal.

Laboratory Facilities

The College of Business Administration has 15 laboratories for student development. The laboratories include: five accounting facilities with individual tables for students; six secretarial facilities, four for typewriting and two for general secretarial and office practices; one facility for data processing; two facilities equipped with electronic calculators which are used by students when studying business statistics; and one up-to-date, modern, electronic, computer-linked terminal room.

Bureau of Business and Economic Research

The Bureau of Business and Economic Research conducts research designed to contribute to economic and business knowledge. The primary emphasis of the Bureau effort is on Memphis, Tennessee, and the Mid-South. The Bureau has four specific functions:

1. To develop and disseminate data on current business and economic conditions.
2. To furnish to business concerns and governmental agencies special studies which will contribute to economic development.
3. To develop economic base studies for various counties and regions in an effort to help them plan the economic development of their area.
4. To train graduate students in business and economic research and to provide research facilities for faculty members.

The Bureau maintains the Mid-South Information Center. This Center contains approximately 20,000 books, censuses, periodicals, studies, and brochures, and has numerous files which contain statistical data provided by national, state, and local sources. In addition to regional economic data, there is also extensive information available on business, agriculture, labor, population, finance, government, and resources. There is a working arrangement between this Center and the main library of Memphis State University and books and other information available in the Cossitt-Goodwyn Technical Library of Memphis can be obtained on a loan arrangement.

Center for Manpower Studies

To offer graduate and undergraduate instruction in manpower topics within an interdisciplinary framework includ-

ing economics, education, management, political science, psychology and sociology. Opportunities for student research projects, including theses, and an internship program will be provided by the Center. The instructional program will be provided on an inter-institutional basis with Memphis State University and the University of Mississippi.

In addition the Center will sponsor and conduct research on problems of manpower allocation, policy and alternatives to existing practices.

ADMISSION

Requirements for admission to The College of Business Administration are those set up for the University as a whole; see page 19.

A student who has attended another accredited college or university, or who has received correspondence and/or extension credit from such an institution, will be given credit for all acceptable residence work and for a maximum of 33 semester hours in acceptable correspondence and/or extension work. To be acceptable, a course must be approved by the Committee on Admissions and the quality point average must meet the minimum standards set by the University; see page 20 for details.

A student who transfers into The College of Business Administration from another degree-granting college of the University or from another educational institution will meet the requirements of the catalog in effect at the time of the transfer.

A student who has not earned credit in this College of Business Administration is not considered as having entered the College.

RESIDENCE REQUIREMENTS

Residence requirements for a degree in business administration are as follows: the senior year must be in residence; at least 33 hours of upper-division business courses must be taken at Memphis State University; 12 of these hours must be in the major field.

University residence requirements are explained in detail on page 47.

ACADEMIC PROGRAMS

The following outline lists the major and areas of concentration for each department in the College of Business Administration.

ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major	Degree Offered
Accountancy	Accountancy		Bachelor of Business Administration
Economics	Economics		Bachelor of Business Administration
Finance, Insurance, Real Estate	Finance		Bachelor of Business Administration
	Insurance		Bachelor of Business Administration
	Real Estate		Bachelor of Business Administration
Management	Business Management	(1) General Management (2) Manpower Management (3) Personnel Administration and Industrial Relations (4) Production Management (5) Quantitative Methods and Business Systems	Bachelor of Business Administration
Marketing	Marketing	(1) Advertising (Marketing Communications) (2) Marketing Management (3) Retailing (4) Sales (5) Transportation and Logistics	Bachelor of Business Administration
Office Administration	Office Administration	(1) Secretarial (2) Office Management	Bachelor of Business Administration
Interdisciplinary Program	International Business		Bachelor of Business Administration

Degree Requirements

The College of Business Administration offers the degree of Bachelor of Business Administration. To qualify for this degree the student must complete 132 semester hours with a quality point average of 2.0 (on a scale in which A counts as 4 quality points; B, 3; C, 2; and D, 1). A grade of C or better must be earned for each course required for the major. A student majoring in The College of Business Administration is not required to have a minor.

All courses used to satisfy specific degree requirements of this College must be taken on a "letter-grade credit" basis or "credit by examination." Courses taken on a "Credit-No Credit" basis or "Audit" basis cannot be used to satisfy specific College requirements. "Credit-No Credit" courses cannot be repeated on a "letter-grade credit" basis.

A student transferring credits from a two-year collegiate institution must complete a minimum of 60 semester hours in an accredited senior institution (see page 22). If a student transfers credit on business courses which are classified as upper division level courses at this College, but were taken as lower division credit or taken at a two-year institution, these courses will be repeated, validated by examination, or replaced with other upper division business courses.

Application for graduation must be submitted to the Credit Analyst of the College soon after the student enrolls for his or her *last semester before graduation* (See Schedule of Classes for final date).

General Requirements for the degree include the successful completion of:

I. Required Courses in the Lower Division.

A student majoring in the College of Business must have earned a minimum of 55 hours of course work before he or she may be allowed to take any upper division courses in the College of Business Administration.

II. Required Core Courses in the Upper Division.

III. Required Courses for a Major in the College of Business Administration.

A minimum of 40% of the 132 semester hours required for the degree must be from outside business and economics (except for the Principles of Economics) and a minimum of 40% (53 hours) of the 132 semester hours required for the degree must be taken within the College. At least 51 hours must be in business courses from upper division business-related upper division courses (those numbered above 2999). In addition to the requirements cited above, electives must be selected by the student according to his or her interest to bring the total hours to 132 semester hours required for graduation. Specific requirements are outlined in the sections which follow.

I. REQUIRED COURSES IN THE LOWER DIVISION (Courses numbered 1000 through 2999):

(Figures in parentheses indicate semester hours credit. One-semester courses may be taken either semester.)

First Semester

See Note A.
English 1101 (3)
Speech 1311 (3)
Science (See Note B)
Management 1010 (3)
P.E. Activity (2)
(See Note D)
A Non-Business elective course (3)

Third Semester

Accounting 2010 (3)
English 210- (3)
(See Note G)
History 2601 (3)
Economics 2110 (3)
A Non-Business elective course (3)

Second Semester

English 1102 (3)
Mathematics 1203 (3)
(See Note E)
Science (See Note B)
See Note F. (3)
P.E. Activity (2)
(See Note D)
A Non-Business elective course (3)

Fourth Semester

Accounting 2020 (3)
English 210- (3)
(See Note G)
History 2602 (3)
Economics 2120 (3)
Management 2750 (3)
(Data Processing)
A Non-Business elective course (3)

Notes:

- It is recommended that all business students have a typewriting ability. Those who do not have this skill are strongly encouraged to enroll in a typewriting course.
- The two science courses required do not have to be in the same discipline, but must have laboratory hours. (Minimum 6 hours).
- Freshmen only will receive credit toward the BBA Degree.
- Only 4 semester hours of P.E. credit may be applied toward the 132 hours required toward the BBA degree.
- Any student with two years of high school Algebra should take Math 1203. If fewer than 2 years, should take Math 1100 prior to attempting 1203. If no high school Algebra, start with Math 1000.
- One of the following is required: Psychology 1101, Sociology 1111 or Political Science 2211.
- Any two courses from English 2101, 2102, 2103, 2104, 2105 and 2106.

II. REQUIRED CORE COURSES IN THE UPPER DIVISION (Courses numbered 3000-4999):

Every student enrolled for the degree of Bachelor of Business Administration must complete successfully the following courses:

(PREREQUISITE: JUNIOR STANDING.)

ECON 3610	Money and Banking (3)
FIR 3011	Business Law (3)
FIR 3130	Legal, Social and Political Environment of Business (3)
FIR 3410	Business Finance (3)
MGMT 3710	Business Statistics I (3)
MGMT 3711	Business Statistics II (3)
MGMT 3110	Organization & Management (3)
MGMT 4710	Business Policy (3)
MKTG 3010	Basic Marketing (3)
OFAD 3510	Business Communications (3)

III. THE MAJOR

With the assistance of his advisor, each student, not later than the beginning of his junior year, will select a major and an area of concentration within the major. The specific courses required by each department for the satisfaction of its majors are listed in the section that follows.

IV. THE MINOR

A student majoring in The College of Business Administration is not required to have a minor. A student majoring in one of the other colleges of the University may take a minor in one of the departmental areas.

PRE-PROFESSIONAL BUSINESS ADMINISTRATION MINOR

The College of Business Administration offers a pre-professional minor (24 hours) for students whose major is in another College of the University. Requirements are:

ACCT 2010, 2020—Fundamentals of Accounting I & II
ECON 2110, 2120—Principles of Economics I & II
FIR 3011—Business Law or FIR 3130—Legal, Social & Political Environment of Business
FIR 3410—Business Finance
MGMT 3110—Organization and Management
MKTG 3010—Basic Marketing

Prerequisites: Accounting, Economics, and junior standing are prerequisites for 3000 level courses.

Departmental Requirements for Majors and Minors**DEPARTMENT OF ACCOUNTANCY**

The objective of the Department of Accountancy is to provide the graduate with a substantial background in accountancy which will enable him to adjust himself to any accounting situation and to advance rapidly in government, industry, or public accounting practice. The curriculum is designed to enable the student to achieve mastery of the generally accepted accounting principles and procedures as they are applied in all fields of accounting and to study modern accounting trends and techniques and the current controversial topics in his profession.

An accounting major or minor must have a grade of C or better in every course attempted in The Department of Accountancy.

The Major: Accounting 2720 (Laboratory) and 21 semester hours in upper-division ac-

counting courses as follows:

3110 and 3120, Intermediate Accounting I and II
3310, Cost Accounting
4210, Advanced Accounting
4240, Auditing
4450, Accounting Systems
4510, Federal Income Tax I

The Minor:

For the student whose major is in another college of the University:

2010 and 2020, Fundamentals of Accounting
2720, Accounting Laboratory
3110, Intermediate Accounting I
3120, Intermediate Accounting II
Select one of the following:
3010, Managerial Accounting or
3310, Cost Accounting

DEPARTMENT OF ECONOMICS

The Department of Economics has two major objectives: to function as a service department for other departments in the College of Business Administration as well as the other Colleges of the University; and, to prepare students majoring in economics by providing a solid foundation in the principal areas of economics.

In general, the department attempts to give economics majors a solid background in economic theory, quantitative economics and applied economics.

The Major in Economics (THE COLLEGE OF BUSINESS ADMINISTRATION): a minimum of 21 semester hours in upper-division courses, as follows:

3210, Labor Economics
4111, Economics of Business Enterprise
3310, Microeconomic Theory
3320, Macroeconomic Theory
Three additional upper-division courses selected with the approval of the department chairman.

The Major in Economics (THE COLLEGE OF ARTS AND SCIENCES): The student will be required to meet the requirements for the Bachelor of Arts degree plus the specific major requirements:

1010 or 2110, 2120
3310, Microeconomic Theory
3320, Macroeconomic Theory
Mathematics 1203

Five additional upper-division courses, for a total of 30 semester hours, selected with the approval of the department chairman. The student has the option of substituting two approved courses in the social sciences for two upper-division economics courses.

The Minor:

For students whose major is in another college of the University:

18 semester hours in economic courses, including Economics 1010 or 2110, 2120, 3310, 3320, and 2 additional courses from the upper division as approved by the department chairman.

DEPARTMENT OF FINANCE, INSURANCE, AND REAL ESTATE

The primary objective of the Department is to provide the student the basic concepts, principles and analytical tools essential for business decisions in the fields of finance, insurance and

real estate. The Department curriculum is designed to give each student a broad background to function effectively within each discipline or in related business and governmental fields. More specifically:

1. Finance majors study the environment, theory and techniques of decisions on the acquisition and allocation of funds by business firms, including the applied areas of investment and financial institutions.
2. Insurance majors study risk theory, risk management, life, health, and property-liability insurance and their relationships to the other disciplines in business administration. The insurance program is also designed to assist students in passing parts of the CPCU and CLU examinations.
3. Real Estate majors will be provided the basic theories and practices of urban land use and economics. Exposure will be to real estate principles, valuation, investment analysis and finance, legal environment, and development.

FINANCE*The Major:*

A minimum of 21 semester hours in upper division courses as follows:
FIR 3710, Investments
FIR 3720, Financial Markets
FIR 4440, Managerial Finance
FIR 4610, Cases in Managerial Finance
Three additional upper-division courses selected with the approval of the advisor.

The Minor:

For the student whose major is within another college of the University.

Accounting 2010 and 2020, Fundamentals of Accounting
Economics 2110 and 2120, Economics I and II
Economics 3610, Money and Banking
FIR 3410, Business Finance
FIR 3710, Investments
One additional upper-division course approved by the department chairman.

INSURANCE

The Major: A minimum of 21 semester hours in upper-division courses, as follows:

FIR 3810, Principles of Risk and Insurance
FIR 4810, Property and Casualty Insurance
FIR 4820, Life and Health Insurance
A minimum of 4 additional upper division courses selected with the approval of the advisor.

The Minor:

For the student whose major is within another college of the University.

Accounting 2010, Fundamentals of Accounting
Economics 2110, Economics I
FIR 3011, Business Law
FIR 3130, Legal, Social and Political Environment of Business
FIR 3810, Principles of Risk and Insurance
Two additional upper-division courses in Insurance approved by the department chairman.

REAL ESTATE

The Major: A minimum of 21 semester hours in upper-division courses, as follows:

FIR 3310, Real Estate
FIR 4310, Real Estate Law
FIR 4320, Real Estate Finance
FIR 4340, Real Estate Appraisal

A minimum of 3 upper division courses selected with the approval of the advisor.

The Minor:

For the student whose major is within another college of the University.

Accounting 2010, Fundamentals of Accounting
Economics 2110, Economics I
FIR 3011, Business Law
FIR 3130, Legal, Social and Political Environment of Business
FIR 3310, Real Estate

Two additional upper-division courses in Real Estate approved by the Department chairman.

DEPARTMENT OF MANAGEMENT

The effective manager of today must have competence in many disciplines, an understanding of a wide variety of relationships, and the ability to analyze evolving management requirements. Regardless of his functional specialty, the professional manager must also be a leader of people who knows how to put together and motivate groups of people serving the goals of the organization.

Effective adaptation of management to such emergent conditions as the continued growth of science and technology, populations, and large scale organization demands a thorough grasp of management process theory including planning, organizing and motivation, and controlling of operations.

The management curricula include the following areas: (1) general management; (2) Personnel administration and industrial relations; (3) production management; (4) quantitative methods and business systems, and (5) manpower management.

Students selecting the area of general management will focus on integration of operations and environments. This option is designed for those students who desire a program which allows for flexibility in the choice of careers in management.

The personnel administration and industrial relations option covers the traditional areas of personnel, collective bargaining, labor legislation, wage and salary administration. Also developments in the behavioral sciences are included in this area.

The production and operations management option is concerned with planning and operations systems to yield products and services. Production operations in non-manufacturing industries are considered as well as those of manufacturing firms.

Quantitative methods and business systems involve the use of mathematical and statistical techniques to solve business problems. Such techniques often require the utilization of computers for their solution. Thus this curriculum incorporates three related areas of study: Statistics, mathematical methods (operations research), and computer utilization.

The manpower management program sponsored by the Department of Management and the Center for Manpower Studies is designed for those students whose career objectives encompass public administration of human resource programs. The manpower management option is concerned with the planning, administration and effective management of public manpower policy and the optimum use of human resources in the private sector.

The Major in Management: a minimum of 21 semester hours in upper-division courses as described in the following concentration areas:

GENERAL MANAGEMENT

MGMT 4210 Personnel Administration
MGMT 4420 Human Relations in Organizations

MGMT 4510 Production Management
ACCT 3010 Managerial Accounting
FIR 4440 Managerial Finance

The remaining 6 hours of the 21 hour minimum for the major may be selected from any upper-division courses in the Department of Management OR approved upper-division courses in the College of Business Administration.

PERSONNEL ADMINISTRATION AND INDUSTRIAL RELATIONS

MGMT 4210 Personnel Administration
MGMT 4220 Collective Bargaining
MGMT 4230 Labor Legislation
MGMT 4240 Wage and Salary Administration
MGMT 4420 Human Relations in Organizations
The remaining 6 hours of the 21 hour minimum for the major may be selected from any upper-division courses in the Department of Management OR other approved upper-division courses.

Recommended courses include:

MGMT 3215 Industrial Relations
ECON 3210 Labor Economics
FIR 4440 Managerial Finance
PSYC 3301 Industrial and Organizational Psychology
PSYC 4301 Psychological Testing
TECH 3386 Industrial Safety

PRODUCTION MANAGEMENT

MGMT 4420 Human Relations in Organizations
MGMT 4510 Production Management I
ACCT 3010 Managerial Accounting
The remaining 12 hours of the 21 hour minimum for the major may be selected from any upper-division courses in the Department of Management OR other approved upper-division courses.

Recommended courses include:

MGMT 4760 Operations Research
ACCT 3310 Cost Accounting
MKTG 4220 Purchasing
Up to two courses from the following
TECH 4460 Motion and Time Analysis

TECH 4462 Inspection and Quality Control
TECH 4464 Production Control
TECH 4466 Plant Layout

QUANTITATIVE METHODS AND BUSINESS SYSTEMS

MGMT 4420 Human Relations in Organizations

MGMT 4790 Information Systems for Management

At least 6 hours must be selected from:

MGMT 4711 Intermediate Statistical Analysis

MGMT 4750 Computer Programming Principles and Applications

MGMT 4760 Operations Research

MGMT 4780 Systems Design for Business Activities

The remaining 9 hours of the 21 hour minimum for the major may be selected from any upper-division courses in the Department of Management OR other approved upper-division courses.

Recommended courses include:

ACCT 3010 Managerial Accounting
ACCT 3310 Cost Accounting
ECON 4111 Managerial Economics
ECON 4120 Economic Forecasting
MKTG 4080 Marketing Research

MANPOWER MANAGEMENT

MGMT 3810 Manpower Program Planning

MGMT 3811 Manpower Program Administration

MGMT 4210 Personnel Administration

MGMT 4420 Human Relations in Organizations

The remaining 9 hours of the 21 hour minimum for the major may be selected from any upper-division courses in the Department of Management OR other approved upper-division courses.

Recommended courses include:

MGMT 4220 Collective Bargaining
MGMT 4230 Labor Legislation
MGMT 4240 Wage and Salary Administration
ECON 3210 Labor Economics
POLS 3601 Public Administration
SOCL 4610 Population

The Minor in Management:

For the student whose major is within another college of the University.

Accounting 2010 and 2020, Fundamentals of Accounting

Economics 2110 and 2120, Economics I and II

FIR 3410, Business Finance

Management 3110, Organization and Management

One approved upper-division course in Management approved by the department chairman.

DEPARTMENT OF MARKETING

The objective of the Department of Marketing is to provide the student with a broad concept of the marketing process and to develop an understanding of all the factors involved in the assembly and distribution of goods and services.

Marketing majors may choose from among five areas of a concentration as outlined below. Four of the areas lead to specific career areas in the field of marketing. Emphasis is placed upon the practical application of marketing concepts. This approach provides market majors with entry level skills while preparing them for future advancement

to top positions in marketing management.

The Major: a minimum of 21 semester hours in upper-division marketing courses, as follows:

- 3012 Consumer Behavior
- 3610 Transportation Fundamentals
- 4080 Marketing Research
- 4901 Marketing Strategies

Three additional courses in one of the marketing areas listed below:

ADVERTISING (Marketing-Communications): designed to provide an understanding of mass communication media, advertising agencies, advertising departments, advertising decisions, and other advertising activities.

- 3140 Advertising Fundamentals
- 3170 Advertising Problems
- 4150 Advertising Media and Campaigns

TRANSPORTATION AND LOGISTICS: Designed to provide a background for students desiring careers with transportation companies, industrial firms or governmental agencies. Courses develop an understanding of the interfaces among the nation's transportation system, the firm's logistics network, and public policy. Total of nine hours selected from these courses:

3-6 hours from:

- 3620 Logistics Planning and Analysis (3)
- 3630 Traffic Management (3)

plus

3-6 hours from:

- 4610 Transportation and Policy Alternatives (3)
- 4620 Carrier Management (3)
- 4692 Seminar in Transportation and Logistics (3)

MARKETING MANAGEMENT: allows a concentration in marketing without specialization. (A minimum of 9 semester hours, at least 3 hours at the 4000 course level).

- 3140 Advertising Fundamentals
- 3320 Retailing Fundamentals
- 3620 Logistics Planning and Analysis
- 4410 Sales Management
- 4530 International Marketing

RETAILING: This concentration gives the student a background in the operation and management of retail establishments.

- 3320 Retailing Fundamentals
- 3330 Retail Merchandising Management
- 4330 Credit and Collections

SALES: This concentration gives the student a thorough grounding in the field of sales from basic salesmanship through sales management; the subject matter is approached from both theoretical and practical aspects.

- 3410 Sales Fundamentals
- 4410 Sales Management
- 4420 Sales Training

ELECTIVES:

- 3430 Sales Promotion
- 3510 Marketing of Services
- 3520 Contractual Marketing Systems
- 4910 Problems in Marketing
- 4991 Marketing Internship

The Minor:

For the student whose major is in another college of the University:

Accounting 2010 and Economics 2110; and either (1) Marketing 3010 and the 12-semester-hour marketing core; and one course from a special area; or

(2) Marketing 3010, 6 semester hours from the marketing core, and 9 semester hours from a specific area.

DEPARTMENT OF OFFICE ADMINISTRATION

The objectives of the Department of Office Administration are to provide the graduate with a broad background to assume an executive secretarial role in business; to provide the graduate with sufficient competency to enter and advance in the area of office management; and to provide the specialization and certification for the graduate to teach business education in the secondary schools.

The student planning to major in office administration will take in his freshman year Office Administration 1210 and 1220, Elementary Typewriting and Intermediate Typewriting. If he has had previous training in typewriting, he will omit 1210 and take 1220 and a higher-numbered typewriting course, or one semester of an approved elective.

The student planning an area of concentration in office administration-secretarial will take in his sophomore year Office Administration 2120 and 2130, Fundamentals of Shorthand and Intermediate Shorthand. If he has had previous training in shorthand, he will omit 2120 and take 2130 and a higher-numbered shorthand course, or one semester of an approved elective. Students planning an area of concentration in office administration-management may omit shorthand from their programs.

No more than three courses (9 semester hours) in typewriting may be applied toward satisfaction of the degree requirements by a student with high school credit in typewriting.

A student must earn a grade of C or better in typewriting or shorthand courses before he can register for the next course in the subject.

The Major in Office Administration-Secretarial Concentration: a minimum of 21 semester hours of upper-division office administration courses, as follows:

- 3140, Advanced Shorthand I
 - 3250, Advanced Typewriting
 - 4270, Secretarial Typing and Office Machines
 - 4320, Applied Secretarial Practice
 - 4330, Records Management and Control
- Two of the following courses, selected in conference with advisor:
- 4161-63, Technical Dictation (4161, Legal; 4162, Medical; or 4163, Scientific)
 - 4340, Office Model Simulation
 - 4400, Data Processing for Secretaries and Educators
 - 4410, Office Management

The Minor in Office Administration-Secretarial Concentration:

- For the student whose major is in another college of the University.**
- 1210 and 1220, Elementary Typewriting and Intermediate Typewriting.
- 2120 and 2130, Fundamentals of Shorthand and Intermediate Shorthand.

3140, Advanced Shorthand.

Two or three additional approved upper-division courses in office administration approved by the department chairman. (If the student can demonstrate proficiency in either typewriting or shorthand, he may omit either Office Administration 1210 or 2120, thus reducing the hours required for the minor from 21 to 18; a minimum of 18 semester hours is required.)

The Major in Office Administration-Managerial

Concentration: a minimum of 21 semester

hours of upper-division courses as follows:

- 4320, Applied Secretarial Practice
- 4330, Records Management and Control
- 4400, Data Processing for Secretaries and Educators

4410, Office Management I

Accounting 3010, Managerial Accounting

Two of the following courses, selected in conference with advisor:

- Management 4210, Personnel Administration
- Management 4420, Human Relations in Organizations
- Management 4750, Computer Programming Principles and Applications
- FIR 4610, Cases in Managerial Finance
- Marketing 4330, Credit and Collections
- Economics 4111, Managerial Economics

The Minor in Office Administration-Management Concentration:

For the student whose major is in another college of the University.

Accounting 2010 and 2020, Fundamentals of Accounting

Economics 2110 and 2120, Economics I and II

Office Administration 3510, Business Communications

Office Administration 4410, Office Management

Two additional upper-division courses in office administration approved by the adviser.

THE PROGRAM IN INTERNATIONAL BUSINESS

ASSOCIATE PROFESSOR
JOHN J. REID, Adviser

Business Administration 415

The primary objective of the International Business Program is to provide the participating student with a broad interdisciplinary background which will prepare him for a career in international business. Through the study of theoretical and practical aspects of the operations of international and multinational business and through work in several liberal arts disciplines, the graduate of this program should be prepared, after receiving a minimum orientation training in a particular international firm, to apply his knowledge to the solution of problems faced by the company.

The Major in International Business:

The student majoring in International Business must complete the same courses required of all students working toward the B.B.A. degree. For additional requirements during the sophomore and junior years, see the International Business adviser. It is recommended that he plan his program so

as to acquire a working knowledge of a foreign language.

In his senior year, the student will take 21 semester hours in courses offered by the College of Business Administration, distributed as follows: 15 semester hours (5 courses) from the following group:
Accountancy 4310, International Accounting
Business Administration 4000, Internship
in International Business

Economics 4340, Comparative Economic Systems
Economics 4350, International Economics
FIR 4550, International Finance
Management 4810, International Management
Marketing 4530, International Marketing
6 semester hours (2 courses) from the following group:
Economics 4111, Managerial Economics

Economics 4120, Economic Forecasting
FIR 4440, Managerial Finance
Management 4760, Operations Research
Management 4780, Systems Design for Business Activities
Marketing 4080, Marketing Research

Two courses from the College of Arts and Sciences are also required in the senior year. See the adviser.

The College of Communication and Fine Arts

RICHARD R. RANTA, B.S., M.A., Ph.D.,
Dean

PHILOSOPHY

The College of Communication and Fine Arts is ultimately focused upon visual and audible symbols, whose rational and emotional values it is the mission of the College to create and explore. In the belief that perception is largely shaped by experience, the College of Communication and Fine Arts offers a range of symbolically rendered experiences, both individual and collective, in the hope of broadening and sensitizing the perceptions of its students.

The kind of symbolic experience which communicates, emerges when, in Ruskin's phrase, "the hand, the head and the heart of man go together." Students in the College of Communication and Fine Arts receive individual and small group instruction toward this end. In the hope of furthering the capacity to impose a pattern on experience and to recognize the patterns offered by others, students of the college are additionally exposed to courses drawn from a broad base of the liberal arts.

The faculty of the college represents a diversity of academic and artistic backgrounds and interests, reflected not only in its teaching, but also in research and creative activities. It is a faculty united in the attempt to maintain the highest standards in both classroom and studio work, standards which find their limits at last only in the mystery and wonder of the human experience from which they rise.

PURPOSES

The College of Communication and Fine Arts has four primary functions. First, it offers courses of study aimed at preparing its students to work toward careers in the fine or applied arts, communications, or the performing arts, whether as practitioners, teachers, artists, or consultants. Second, the College affords broad exposure and instruction in fine arts and communication to students of other colleges in the University whose degree programs may be enhanced by such exposure. Third, with a view toward individual professional growth as well as general cultural enhancement, the College vigorously promotes both scholarly research and artistic production on the part of its faculty. Finally, the College seeks to enrich the cultural atmosphere of both the University and the community at large through a continuing variety of public programs, to include art exhibitions, media presentations, dramatic productions, concerts, recitals, lectures, seminars, debates, workshops, festivals, and the like.

Through the diversity of these constituent elements, the College reflects the wide compass of opportunity and challenge facing the communicative artist and scholar. Ultimately it is our goal to foster a more intense and profound awareness of the broad range of human experience from which the College derives its pertinence and vitality.

ORGANIZATION

The College of Communication and Fine Arts comprises four academic

departments: Art, Journalism, Music, and Speech and Drama. The requirements for the majors and minors offered by these departments are listed in the section beginning on page 68.

ADMISSION

The requirements to admission to the College of Communication and Fine Arts are those established by the University as a whole; see page 20. See the descriptions of the specific degree requirements for any special admissions requirements.

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail on page 47. A transfer student in The College of Communication and Fine Arts must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor. These credits may be earned only through regular class enrollment for a letter grade.

ACADEMIC PROGRAMS

Degrees Offered

A student may earn a Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Arts, by majoring in one of the four departments which comprise the College of Communication and Fine Arts. Requirements for the Bachelor of Fine Arts and the Bachelor of Music degrees are outlined in the section beginning on page 65. The following is an outline by departments of all majors and concentration areas offered by the departments in the College of Communication and Fine Arts.

ACADEMIC PROGRAMS

Department	Major	Concentrations Within Major	Degree Offered
Art	Art	(1) Art Education (2) Graphic Design (3) Interior Design (4) Ceramics, Painting, Sculpture, Printmaking (5) Design	Bachelor of Fine Arts (B.F.A.)
	Art History		Bachelor of Arts (B.A.)
Journalism	Journalism	(1) Advertising (2) Broadcast Journalism (3) News Editorial (4) The Magazine (5) Press Photography (6) Public Relations	Bachelor of Arts (B.A.)

Department	Major	Concentrations Within Major	Degree Offered
Music	Performance	(1) Brass Instruments (2) Opera (3) Organ (4) Percussion (5) Piano and/or Harpsichord (6) Strings (7) Voice (8) Woodwinds	Bachelor of Music (B.M.)
	Musical Arts	(1) Church Music (Choral) (2) Church Music (Organ) (3) Composition (4) Music History (5) Music Theory (6) Piano Pedagogy (7) Accompanying	Bachelor of Music (B.M.)
	Applied Music		Bachelor of Arts (B.A.)
	Music History and Literature		Bachelor of Arts (B.A.)
Speech and Drama	Speech and Drama	(1) General Speech (2) Radio-TV-Film (3) Rhetoric and Communication Arts (4) Theatre	Bachelor of Arts (B.A.)
	Theatre	(1) Performance (2) Production	Bachelor of Fine Arts (B.F.A.)

TEACHER PREPARATION

Students enrolled in a degree program of The College of Communication and Fine Arts who wish to prepare themselves for teaching careers in the secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined under Requirements for Teacher Certification beginning on page 47. An application to enter the teacher education program must be filed with the education analyst, room 211-A, The College of Education.

DEGREE REQUIREMENTS

Bachelor of Fine Arts (in Art)

The Bachelor of Fine Arts in Art is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in art than he has under the other baccalaureate programs; for this degree a total of 142 semester hours is required for graduation, 90 of which must be in professional course work. A minimum grade of C is required in all art courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). The specific degree requirements are divided into five groups: (1) general education (2) basic art courses (3) courses in one of the four concentration areas (4) elective courses in art and (5) elective courses other than art to bring the total to 142 semester hours.

1. GENERAL EDUCATION COURSES

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: 6 semester hours in one language.

History 2601, 2602.

Two-semester sequence course (6 semester hours or more) in biology, chemistry, Geography 1101, 1102; Geography 1101, Geology 1101; Geology 1101, 1201; Physical Science 1031, 1032; or physics.

One semester course (3 semester hours) Mathematics 1181, 1182, 1203, 1211, or 1212.

Physical Education: for details see page 46. (Art education majors must also complete all general education courses outlined in section II of the Requirements for Teacher Certification as listed on page 74).

2. BASIC ART COURSES

Art 1311, 1314, 2313 (Drawing).

Art 1201, 1204, 2201, 2202 (Design).

Art 2101, 2102 (Art History).

Art History: 12 semester hours in upper-division art history courses. (Interior Design majors are required to take Art 3101, 3102; Art Education majors are required to take only Art 4167 and 4168.)

3. CONCENTRATION AREAS:

a. Ceramics, Painting, Printmaking, and Sculpture:

Art 2314, 4321 (Drawing and Painting).

Art 3523, 3524, 4521, 4522 (Ceramics).

Art 2351, 3351, 4351 (Printmaking).

Art 2511, 3511, 4511 (Sculpture).

Art 3331, 3332, 4331, 4332 (Painting).

Art 4621, 4622 (Workshop).

Art 4611 (Senior Problem).

NOTE: Selection of fourteen (14) appropriate courses from the nineteen (19) courses listed above.

b. Graphic Design:

Art 2213 (Lettering and Layout).

Art 2221 (Graphic Production).

Art 2311 (Perspective).

Art 2351 (Printmaking).

Art 3221, 3222, 4221, 4222 (Graphic Design).

Art 3223 and 3541 (Packaging and Display).

Art 4321 (Drawing and Painting).

Art 4341, 4342 (Illustration).

Art 4611 (Senior Problem).

c. Interior Design:

Art 2311 (Perspective).

Art 2231, 2232, 3231, 3232, 4231, 4232 (Interior Design).

Art 4233, 4234 (Interior Rendering).

Art 4235, 4236 (Interior Design Research).

Art 4551, 4552 (Working Drawings).

Art 4611 (Senior Problem).

d. Art Education:

Art 2314, 4521 (Drawing and Ceramics).

Art 3411, 3413, 3421, 4421 (Art Education).

Art 4424 (Textiles).

Educational Foundations 2011, Educational Psychology 2111 and 3121, Elementary Education 4821, Secondary Education 4441 and 4841.

e. Design:

Art 4201-4202 (Advanced Design Plastics)

Art 4203-4204 (Advanced Design Kinetics)

Art 4205-4206 (Advanced Design—Continuous Pattern Design)

4. **ART ELECTIVES** to complete the total of 90 semester hours.

5. **ELECTIVE COURSES** other than art to complete the total of 142 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Art.

Bachelor of Fine Arts (in Theatre)

The Bachelor of Fine Arts degree is a professional degree program specifically oriented for students whose *certain* interests and abilities *strongly* suggest the potential for pursuing careers as professional production artists in the resident, professional, or academic theatre. To expand the student's creative powers and deepen his commitment to a vocation in the theatre, the B.F.A. program offers the student (1) a basic probing of all the arts and crafts of the theatre; (2) an exploration in

depth of one area of special interest; (3) the opportunity to participate creatively as a theatre artist through extensive production experience. Two areas of specialization are offered: I. Performance and II. Production. Students entering the B.F.A. program will elect one of these two areas for concentrated study. The student will normally begin his specialized training at the beginning of his junior year.

ADMISSION

Admission to the B.F.A. program in Theatre Arts is based on selective procedures. Entrance into the performance area is based on auditions and interview. The audition/interviews are held twice yearly, near the end of each semester. The audition will consist of three scenes of approximately 2 minutes duration; one dramatic; one comic; and one from period literature (period pantomimes not acceptable). Following a group of scenes a critique session will be held. Applicants will be notified within a few days that they have been accepted into the program, accepted for one more semester on a probation basis, or advised to pursue another degree program.

An interview, also, is required for admission to the production area. The student will submit a portfolio of his graphic work. This may consist of sketches, costume plates, elevations, light plots, ground plans, etc. Should the student not possess such a portfolio, the student may be requested to execute a relatively simple design project in his selected area of study.

REMAINING IN THE B.F.A. PROGRAM

The fact must be emphasized that admission to the B.F.A. curriculum does *not* imply a student's permanent tenure in the program. At the end of each semester the student is expected to audition and his work will be assessed by the theatre faculty. His artistic growth, his development of technical facility, his continuing commitment to creative excellence—all will be evaluated. Permission to continue in the program will be based upon this evaluation.

TRANSFER OF CREDIT

In certain cases students may be admitted to an advanced level of the B.F.A. training program. Such admission will be based upon: (1) the student's previous course work in Theatre Arts, particularly in the area of his special interest; (2) the student's previous creative involvements in production experience; (3) letters of recommendation from former Theatre Arts instruc-

tors and/or directors. Even if admitted to an advanced standing, the student will be required to remedy previous course deficiencies.

ADVISING

Upon admission to the B.F.A. program, each student will be assigned a faculty adviser. The student must secure three faculty members to serve on his committee.

For this degree, 134 semester hours are required for graduation, at least 74 of which must be in theatre courses. A minimum grade of C is required in all theatre courses; the student must maintain an overall quality point average of 2.0.

1. GENERAL EDUCATION COURSES:

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106	(12)
Foreign Language: 6 semester hours in one language	(6)
History 2601, 2602	(6)
One one-semester course in mathematics, plus one two-semester course (6 semester hours or more) in biology, chemistry, geology, physical geography, or physics	(9)
Physical Education: 4 semester hours	(4)
	<hr/> 37 SH

2. BASIC THEATRE CORE COURSES:

Speech 1211 Voice and Diction	(3)
Speech 1411 Basic Oral Interpretation	(3)
Speech 2501 Stage Movement I	(3)
Speech 2502 Stage Movement I	(3)
Speech 2531 Acting I	(3)
Speech 2541 Stage Make-up	(2)
Speech 3521 Directing I	(3)
Speech 3551 History of the Theatre	(3)
Speech 3552 History of the Theatre	(3)
Speech 4011 Performance and Production (see note below)	(6)
	<hr/> 32 SH

3. CONCENTRATION AREAS:

The Major: THEATRE

Concentration Areas (choose a or b):

a. Performance

Speech 2411 The Art of Oral Interpretation	(3)
Speech 2412 Advanced Oral Interpretation	(3)
Speech 2511 Stagecraft I	(3)
Speech 2532 Acting I	(3)
Speech 3401 Performance Laboratory (Four semesters)	(4)
Speech 3451 Interpreter's Theatre	(3)
Speech 3501 Production Laboratory (Four semesters)	(4)
Speech 3502 Stage Movement II	(3)
Speech 3503 Stage Movement II	(3)
Speech 3522 Directing I	(3)
Speech 3531 Acting II	(3)
Speech 3532 Acting II	(3)
	<hr/> 38 SH

b. Production

Speech 3401 Performance Laboratory (Two semesters)	(2)
Speech 3501 Production Laboratory (Six semesters)	(6)
Speech 3511 Stagecraft II	(3)

Speech 3512 Stagecraft II	(3)
Speech 3561 Theatrical Design I	(3)
Speech 3562 Theatrical Design I	(3)
Speech 4511 Stage Lighting I	(3)
Speech 4512 Stage Lighting I	(3)
Speech 4561 Stage Costuming I	(3)
Speech 4562 Stage Costuming I	(3)
Speech 4563 Theatrical Design II	(3)
Speech 4564 Theatrical Design II	(3)
Speech 4591 Theatre Management	(3)

41 SH

4. ELECTIVES:

Elective courses (not more than 12 semester hours in Speech and Drama) chosen in conference with the student's adviser to complete the total of 134 semester hours.

NOTE: Production and Performance Internship (see course description on page 114). The intent of this degree requirement and course is to provide the student experience in a full-time theatre production situation. Off-campus participation for a summer (following the junior year) is an essential element of the B.F.A. degree program. Details are to be planned in advance in conference with the student's B.F.A. committee.

Bachelor of Music

The Bachelor of Music is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in music than he has under the other baccalaureate programs; as many as 92 of the 132 semester hours required for graduation may be in music. A minimum grade of C is required in all upper-division music courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). The specific degree requirements are divided into five groups: (1) general education (2) basic music courses (3) courses required for one of the thirteen concentrations as outlined (4) music electives and (5) elective courses other than music and music education to bring the total to 132 semester hours.

ADMISSION

Admission to the music degree program requires a personal interview (where applicable) and the successful completion of an audition of all candidates. The audition consists of a performance in the prospective student's major applied area plus a written and aural music theory evaluation. A list of audition recommendations for specific instruments and voice may be obtained from the Department of Music. Candidates are accepted on the basis of accomplishment, future promise, and suitability for the program in which they wish to enroll. Auditions are scheduled at designated locations on Saturdays, November through April, or by appointment.

Detailed degree requirements are as follows: figures in parentheses indicate semester hours credit.

1. GENERAL EDUCATION COURSES (34-36 semester hours)

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: 6 semester hours in one foreign language; for details see adviser (6). History 2601, 2602 (6).

A two-semester sequence course (6 semester hours or more) in biology, chemistry, Geography 1101, 1102; geology, or physics (6-8).

Mathematics: three semester hours from the following: 1181, 1182, 1203, 1211, 1212, 1312, 1321, 2291, 2321, or 2611.

Physical Education; for details see page 46.

2. BASIC MUSIC COURSES (36 semester hours)

Music Theory and Composition 1004, 1005, 1006, 3001, 3002, 3003 (22)

Music History and Literature 3301, 3302, History of Music (6)

Major ensembles; for details see page 128.

Piano proficiency; for details see page 126.

Applied Music Workshop; for details see page 127.

3. MAJORS (Choose one)

a. Performance

Concentration Areas (Choose one)

(1) Brass Instruments (45 semester hours)
Individual instruction in major instrument (32)

Individual instruction in two secondary brass instruments (4)

MUSE 1104, Class Instruction in Woodwind Instruments (2)

MUSE 3701, Instrumental Conducting (3)
Junior and Senior Recitals (nc)

Small Ensembles, 4 semester hours required to be chosen from those listed on page 128. (4)

(2) Opera (47 semester hours)

Individual instruction in voice (16)

MUHL 4002, 4003, Song Repertory (4)

Junior and Senior Recitals (nc)

Note: The junior recital will be satisfied by public performance in a major operatic role.

MUAP 3602, Opera Workshop (4)

MUAP 3603, Opera Soloists (2)

MUAP 3604, Opera Production Laboratory (4)

MUAP 3620, Dramatic Coaching (3)

MUHL 4407, The Opera and the Music Drama (3)

Foreign Language: 6 hrs., 3 hrs. in German and 3 hrs. in Italian (6)

(3) Organ: (56 semester hours)

Individual instruction in organ (40)

Junior and Senior Recitals (nc)

MUSA 4001, Judeo-Christian Music (3)

MUSA 4002, History of Liturgies (3)

MUSA 4101, Service Playing (3)

MUSA 4102, Church Choir and Console Conducting (3)

Small Ensemble, 4 semesters required, to be chosen from those listed on p. 128. (4)

(4) Percussion (45 semester hours)

Individual instruction in percussion (32)
MUSE 1101, Class Instruction in Brass Instruments (2)

MUSE 1109, 1110, Class Instruction in String Instruments (2)

MUSE 1104, Class Instruction in Woodwind Instruments (2)

MUSE 3701, Instrumental Conducting (3)
Junior and Senior Recital (nc)

Small Ensembles, 4 semesters required, to be chosen from those listed on p. 128. (4)

(5) Piano and/or Harpsichord (47 semester hours)

Individual instruction in piano and/or harpsichord (40)

Junior and senior recitals (nc)

MUSE 4503, Advanced Piano Pedagogy (3)

Small Ensembles, 4 semesters required, to be chosen from those listed on p. 128. (4)

(6) Strings: (46 semester hours)

Individual lessons in major instrument (32)

Individual instruction in two secondary string instruments (4)

MUTC 3103, Advanced Orchestration (3)

MUSE 3701, Instrumental Conducting (3)

Junior and Senior recital (nc)

Small Ensembles, 4 semesters required, to be chosen from those listed on p. 128. (4)

(7) Voice: (52 semester hours)

Individual instruction in voice (24)

MUHL 4002, 4003, Song Repertory (4)

Junior and Senior Recitals (nc)

MUAP 3604, Opera Production Laboratory, 2 semesters required (2)

MUHL 4407, The Opera and the Music Drama (3)

MUSE 4701, Choral Conducting (3)

Foreign Language: in addition to 6 hours in one language to fulfill the general education requirement; 6 hours in each of two other languages (12)

Small Ensembles: 2 semesters of Opera Workshop and 2 semesters to be chosen from those listed on p. 128. (4)

(8) Woodwinds: (50 semester hours)

Individual instruction in major instrument (32)

Individual instruction in three secondary woodwinds (6)

MUSE 1101, Class instruction in Brass Instruments (2)

MUTC 3103, Advanced Orchestration (3)

MUSE 3701, Instrumental Conducting (3)

Junior and Senior Recitals (nc)

Small Ensembles, 4 semesters required; to be chosen from those listed on p. 128. (4)

b. Musical Arts

Concentration Areas (Choose one)

(1) Church Music (Choral Emphasis): 44 semester hours

Individual instruction in voice (16)

MUSE 1101, Class Instruction in Brass Instruments (2)

MUSE 1109, 1110, Class Instruction in String Instruments (2)

MUSE 1104, Class Instruction in Woodwind Instruments (2)

MUSE 4701, Choral Conducting (3)

MUSE 3701, Instrumental Conducting (3)
Senior Recital (conducting or voice) (nc)

MUSA 4001, Judeo-Christian Music (3)

MUSA 4002, History of Liturgies (3)

MUSA 4003, Hymnology (3)

MUSA 4201, Church Choir Organization and Training (3)

Small Ensembles, 4 semesters required; to be chosen from those listed on p. 128. (4)

(2) Church Music, (Organ Emphasis): 53 semester hours

Individual instruction in Organ (24)

Individual instruction in voice (4)

MUSE 3701, Instrumental Conducting (3)

MUSA 4001, Judeo-Christian Music (3)

MUSA 4002, History of Liturgies (3)

MUSA 4003, Hymnology (3)

MUSE 4701, Choral Conducting (3)

MUSA 4102, Church Choir and Console Conducting (3)

MUSA 4201, Church Choir Organization and Training (3)

Senior Recital (nc)

Small Ensembles, 4 semesters required, to be chosen from those listed on p. 128. (4)

(3) Composition (50 semester hours)

Individual instruction in applied music (12)

(Normally in piano; however, other areas may be substituted after the piano proficiency has been passed.)

MUTC 2501, Composition (2)

MUTC 2502, Composition (4)

MUTC 4501, Composition (16)

MUTC 3105, 3106, Counterpoint (4)

MUTC 3103, Advanced Orchestration (3)

MUSE 3701, Instrumental Conducting (3)

MUSE 3702, Score Reading (3) or MUHL

4406, Music in the Twentieth Century (3)

MUTC 4101, Compositional Techniques of the Twentieth Century (3)

Senior Composition Recital (nc)

(4) Music History (52 semester hours)

Individual instruction in applied music (8)

MUTC 3105, 3106, Counterpoint (4)

Advanced Music History (12)

Two additional courses in the social sciences (6)

Foreign Language: 12 semester hours in addition to requirements for general education (12)

One course in mathematics or philosophy (3)

One course in art or speech (3)

Collegium Musicum (4)

(5) Music Theory (51 semester hours)

Individual instruction in applied music (12). At least 8 of these hours must be in piano.

MUTC 4502, Composition for Non-composition Majors (3)

MUTC 3105, 3106, 3108, Counterpoint (6)

MUTC 3103, Advanced Orchestration (3)

MUSE 3701, Instrumental Conducting (3)

MUSE 3702, Score Reading (3)

MUTC 4203, Critical Studies in Music (3)

MUTC 4101, Compositional Techniques of the Twentieth Century (3)

MUTC 4102, Analytical Techniques (3)

MUSE 4701 Choral Conducting (3)

MUTC 4203, Pedagogy of Theory (3)

Upper Division Music History (6)

(6) Piano Pedagogy: (51 semester hours)

Individual instruction in piano (32)

MUSE 4501, Elementary Piano Methods (2)

MUSE 4502, Class Piano Methods (2)

MUSE 4503, Advanced Piano Pedagogy (3)

MUHL 4001, Piano Repertory (3)

EDPS 2111, Human Growth and Development (3)

MUAP 3301, Ensemble for Pianists (6)

Junior Recital (nc)

(7) Accompanying: (51-54 semester hours)

Individual instruction in piano (32)

MUSE 4501, Elementary Piano Methods (2)

MUSE 4502, Class Piano Methods (2)

MUSE 4503, Advanced Piano Pedagogy (3)

MUAP 3301, Ensemble for Pianists (6)

MUHL 4351, Problems in Editing (1-3)

OR

MUSE 3702, Score Reading (3)

Junior Recital (nc)

Accompaniment Recitals (nc)
 MUHL 4002, Song Repertory I (2)
 OR
 MUHL 4003, Song Repertory II (2)
 OR
 MUHL 4004, Survey of Chamber Music
 for Piano (3)
 MUSE 4505, Principles of Accompanying
 (3)

4. MUSIC ELECTIVES: at least 6 semester hours in upper-division music courses selected from a concentration area other than the one chosen for the major.

5. ELECTIVE COURSES to bring the total to a minimum of 132 semester hours. These courses will be chosen by the student in consultation with his adviser and major professor.

Bachelor of Arts

To qualify for the degree of Bachelor of Arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 42 semester hours must be in courses from the Upper Division (those numbered above 2999). Not more than 42 semester hours in any one subject will be counted toward a degree.

English 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign language: 12 semester hours, or the equivalent, in one foreign language; for details see page 51.

History 2106, 2602.

Natural science: 3 courses from at least 2 departments; if 2 are from the same department, they must constitute a sequence. Courses from which these must be selected are Biology 1200, 1600; Chemistry 1051, 1052, or Chemistry 1111, 1112; or Physical Science 1031, 1032; Geography 1101, 1102; Geology 1101, 1102; Geology 1101, 1201 (not more than two courses may be taken in geography and/or geology courses to meet this requirement); Physics 1111, 1112, or 1811, 1812, or 2111, 2112, or 2511, 2512.

Social science: 15 semester hours with no more than 6 semester hours in a single discipline. Courses from which these must be selected are Anthropology 1100 or 1300, and Anthropology 1200 or 1400; Criminal Justice 1100; Economics 1010, 2110, 2120; Geography 2301, 2311; History 1301, 1302; International Studies 1101, 1102; Political Science 1101, 2211, 2301, 2501; Psychology 1101, 1102; Sociology 1111, 1112; no more than 6 hours from the following courses: Journalism 1011, 1012; Speech 1781, 1782.

Mathematics/Philosophy: 9 semester hours as follows: 3 of mathematics plus 3 of philosophy plus 3 of either. The following courses are acceptable: Mathematics 1181, 1182, 1203 or 1211, 1212, 1312, 1321, 1401, 1402, 2291, 2321, 2322, 2401, 2402, 2581; Philosophy 1111, 1611.

Two of the following courses: Art 1101; Music History 1101; Speech 1551.

Physical Education: for details see page 46.

Completion of requirements for one of the majors listed below.

Electives to bring the total to 132 semester hours.

MAJORS (Choose one)

1. Art History

The Major: 36 semester hours in art history courses, including Art 2101, 2102, 4167, 4168, and 4611, and 21 additional semester hours, 9 of which must be taken from the upper division.

The Minor: 24 semester hours in art courses, 9 of which must be from the upper division.

2. Journalism

(The following areas of concentration are available):

ADVERTISING

33 semester hours in journalism courses, including Journalism 1011, 1012, 2111, 2211, 2300, 3210, 3221, 3222, 4100, 4101 or 4222, and 3 additional hours in Journalism.

BROADCAST JOURNALISM

Journalism 1011, 2111, 2112, 3331, 3332, 3340, 4001, 4030; Speech 3823, 3824.

THE MAGAZINE

30 semester hours in journalism courses, including 1011, 1012, 2111, 2211, 2300, 3111, 3114, 3116, 3117, and three additional semester hours from the upper division.

NEWS-EDITORIAL:

30 semester hours in journalism courses, including Journalism 1011, 1012, 2111, 2112, 2300, 3112, 3113, 4001, 4005, and 3 additional semester hours from the upper division.

PRESS PHOTOGRAPHY:

33 semester hours in journalism courses, including Journalism 1011, 2111, 2112 or 3114, 3011, 3111, 3340, 4001, 4008, 4009, 4222 and 3 additional hours in Journalism.

PUBLIC RELATIONS:

30 semester hours in journalism courses, including Journalism 1011, 2111, 2112 or 3114, 3111 or 3340, 3112, 3221, 4001, 4222, 4232, and three additional semester hours to be chosen from 3113, 4002, 4003, or 4242.

The Minor: Students may qualify for a minor in general journalism by completing 18 semester hours in journalism courses, including Journalism 1011, 2111, 2300, and nine additional semester hours selected from the upper division.

Note: All journalism students must have typing proficiency before admission to courses numbered 2000 and above.

Practical experience is available to all journalism students on *The Helmsman*, a semi-weekly newspaper; *The Statesman*, a weekly departmental publication; *The DeSoto*, University yearbook; or in one of the following activities: University Public Information Office, Athletic Publicity Office, Alumni Publicity Office, Photo Service Department. Qualified majors will be chosen for senior-year internships with Memphis newspapers, magazines, advertising-public relations agencies, and broadcasting stations.

3. Applied Music

The Major: 32 semester hours in basic music courses plus the completion of the requirements for a major; specific courses are outlined below:

Basic music courses (32 semester hours)
 Music Theory and Composition 1004,
 1005, 1006, 3001

Music History and Literature 3301, 3302

Applied Music, 8 semester hours

Music ensemble, 4 semester hours

Applied Music Workshop (see p. 104 for details).

Applied Music (8 semester hours).

8 semester hours of individual instruction in upper-division courses.

The Minor: 20 semester hours in basic music courses plus the completion of the requirements for a minor; specific courses are outlined below:

Basic music courses (20 semester hours)
 Music Theory and Composition 1004,
 1005, 1006

Music History and Literature 3301, 3302
 Individual instruction in piano, organ,
 voice, or orchestral instrument, 4 semester hours

Applied Music Workshop (see p. 104 for details).

Applied Music (4 semester hours)

4 semester hours of individual instruction in upper-division courses.

4. Music History and Literature

The Major: 32 semester hours in basic music courses plus the completion of the requirements for a major; specific courses are outlined below:

Basic music courses (32 semester hours)
 Music Theory and Composition 1004,
 1005, 1006, 3301

Music History and Literature 3301, 3302

Applied Music, 8 semester hours

Music ensemble, 4 semester hours

Applied Music Workshop (see p. 104 for details).

Music History and Literature (8 semester hours).

Additional courses in music history as suggested by the student's adviser.

The Minor: 20 semester hours in basic music courses plus the completion of the requirements for a minor; specific courses are outlined below:

Basic music courses (20 semester hours)
 Music Theory and Composition 1004,
 1005, 1006

Music History and Literature 3301, 3302

Individual instruction in piano, organ,
 voice, or orchestral instrument, 4 semester hours

Applied Music Workshop (see p. 104 for details).

Music History and Literature (6 semester hours)

Two or more courses as recommended by the student's adviser.

5. Speech and Drama

Concentration Areas:

GENERAL SPEECH: 36 semester hours, including 1411, 1551, 1781, and at least six hours of upper-division courses approved by the Department Chairman from each of the three concentration areas, (1) radio-television-film, (2) rhetoric and communication arts, and (3) theatre, and three additional upper-division hours from any concentration area.

RADIO-TELEVISION-FILM: 34 semester hours, including 1551, 1781, 1782, 3823, 3881, and 18 additional hours of upper-division courses approved by the chairman.

RHETORIC AND COMMUNICATION ARTS: 33 semester hours, including 1551, 1781, 1782, 2321 or 2322, 2781, and 18 additional hours of upper-division courses approved by the chairman.

THEATRE: 35 semester hours in theatre courses, including 1411, 1551, 1781, 2511, 2531, 3401 or 3501 (two semesters), and 18 additional hours of upper-division courses. Specific course requirements for theatre emphasis or oral interpretation will be determined in conference with adviser.

The Minor: Any student wishing to minor in any area of the Department of Speech and Drama should see the Department Chair-

man who will assign an appropriate adviser.

The minor must consist of at least fifteen hours of approved coursework, as determined by the student in conference with

his adviser, and with the approval of the Department Chairman.

Speech minor for Business Administration: 18 semester hours in speech courses, including Speech 1211, 1311, 2322, 2331, 3011, 3341.

Speech minor in Oral Interpretation: 18 semester hours in speech courses, including Speech 1211, 1411, 2411, 4421 (or 4431), and six hours chosen from the following: 2412, 3451, 3461, 3551, 3552, 4441, 4451, 4581.

The College of Education

ROBERT L. SAUNDERS, B.S., M.S.,
Ed.D., *Dean*

DEVOY A. RYAN, B.S., M.Ed., Ed.D.,
Associate Dean

BARBARA A. BURCH, B.A., M.S., Ed.D.,
Associate Dean

ELBERT A. NOTHERN, B.S.E., Ed.M.,
Ed.D., *Assistant Dean*

*Room 215, The College of Education
Building*

PURPOSES

In helping Memphis State University achieve its three broad objectives of teaching, public service, and research, the College of Education has the following specific objectives: (1) to work with schools and other appropriate organizations in recruiting desirable and promising candidates into education careers; (2) to provide preparation programs which produce teachers and related educational personnel sufficient in quantity and competence to help meet the needs of the state, region, and nation; (3) to provide programs and services for other educational personnel already in service which enable them to acquire additional preparation needed for changing career objectives and continuous professional growth; (4) to provide effective personnel services in such areas as certification, placement, and follow-up to undergraduates, graduates, and educators in service; (5) to provide a comprehensive program of research and service to schools and other appropriate agencies in the state and region; and (6) to provide appropriate programs and services needed by Memphis State University in its efforts to continuously improve the effectiveness of teaching and learning at the University.

The College of Education provides curricula leading to the degrees of Bachelor of Science in Education, Bachelor of Science in Home Economics, and Bachelor of Music Education. Candidates for these degrees take required and elective courses within The College of Education. They also take courses in the other colleges of the University in general education and in preparation for teaching in their subject matter fields. Students who wish to matriculate in the teacher education program must satisfy the special criteria of that program in addition to the general University admission requirements. Applications for admission to

the teacher education program cannot be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The College of Education. For details see page 71.

ACCREDITATION

The College of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate programs through the Doctor's degree for the preparation of teachers and related school personnel are fully accredited by the National Council for Accreditation of Teacher Education.

ORGANIZATION OF THE COLLEGE

The College of Education offers programs in the following areas: Adult Education; Distributive Education; Educational Administration and Supervision; Elementary Education; Foundations of Education; Guidance and Personnel Services; Health, Physical Education, and Recreation; Home Economics; Library Service; Secondary Education; and Special Education and Rehabilitation. The College of Education offers a program in Business Education through The College of Business Administration; Industrial Arts Education through Industrial Technology; and Music Education through the Department of Music. The detailed requirements for these programs are listed in the section beginning on page 73.

The University Campus School (a public school comprising grades 1 through 6) and the Children's School (a pre-school for children three to six years of age) are operated under the supervision of The College of Education.

Bureau of Educational Research and Services

The Bureau of Educational Research

and Services coordinates educational studies, surveys, evaluations, consultant activities and information for The College of Education. Emphasis is placed on team projects related to the needs of West Tennessee and the Mid-South area and conducted through the cooperative efforts of the faculty and students of The College of Education and educators in local school systems. The primary objective of the Bureau is service, and research plays a fundamental role in the extension of this function.

Representatives of school systems, students, or other interested persons should confer with the Director of the Bureau for information about opportunities for educational research and services.

Center for Study of Higher Education

Established in 1971, in response to growing needs and interest in higher education and in the Mid-South, the Center functions as a coordinating unit within the College of Education with three primary functions: (1) identify, practice and coordinate instructional services in higher education, to conceive valid and valuable progress and to help make them available to students, and to facilitate students' progress through the programs, (2) render service to other units of the University and to the areas, (3) stimulate, conduct, and assist in research needs and opportunities as they arise from students, and the educational needs of the University and community and region.

The Children's School

The Children's School, for children three to six years of age, is administered by the Department of Curriculum and Instruction. The school is a non-profit institution. Tuition charges are determined by the cost of operation.

Division of Professional Laboratory Experiences

This division is a college-wide co-

ordination unit for all professional laboratory experiences ranging from observation to full-time internships, undergraduate and graduate. The division coordinator serves as a liaison between the College and those organizations and agencies used by the College to provide laboratories experience for students and faculty.

University Campus School

The University Campus School, adjacent to The College of Education Building, is a public school comprising grades 1 through 6, operated by the University as a part of the public school system of the City of Memphis. It offers a broad program of training for approximately 500 students. This school also serves the teacher education program as a laboratory where varied opportunities are offered University students to study children, to study the school program, and to participate in teaching activities.

ADMISSION

Requirements for admission to The College of Education are those set up for the University as a whole; see page 19.

Admission to the Teacher Education Program

Students who enter MSU for the first time after September 1, 1962 and who wish to prepare themselves for careers as teachers must make formal application for admission to the Teacher Education Program. Applications should be filed no later than the second semester of the sophomore year. If a student does not file an application during the second semester of his sophomore year, he MUST file one before the end of the first semester of the junior year and prior to enrolling in EDPS 3121. Students who transfer to MSU with 40 semester hours or more must file an application during their first semester of residence and prior to enrolling in EDPS 3121.

The following factors will be considered by the screening committee in determining a student's eligibility for admission to the teacher education program:

- (1) academic aptitude — acceptable scores on tests used for admission to MSU.
- (2) academic achievement — grade point average of 2.25 in professional education, 2.25 in the teaching endorsement(s), and 2.25 overall.
- (3) proficiency in English — grade point average of 2.00 in all Eng-

lish courses completed or at least a grade of "C" in English 1101 and 1102.

- (4) speech and hearing — acceptable scores on tests administered by Memphis State University Speech and Hearing Center.
- * (5) health
- * (6) social adjustment
- * (7) communication skills
- * (8) interest in teaching
- * (9) the desire to work effectively with students
- (10) Completion of 36 semester hours of the 45 semester hours in the general education program.
- (11) Completion of at least 9 semester hours in the major teaching endorsement.
- (12) Completion of EDFD 2011 and/or EDPS 2111 [or equivalent(s)].
- (13) Evidence of satisfactory performance in an early related field experience.
- (14) Specific recommendations from faculty members — professor under whom applicant completed EDFD 2011 or EDPS 2111 and professor under whom applicant has completed a course in the major endorsement, as well as the adviser.
- (15) Transfer student who transfers 40 or more semester hours to have recommendation from former college or university adviser, instructor, Department Chairman, or other official.

Once admitted to the teacher education program the student must maintain the standards required for admission. If the student falls below any of these standards, his name will be removed from the file of students matriculated in teacher education and he will be advised of this action. He may then either try to bring his record up to a level suitable for re-admission or drop out of the teacher education program.

In order to be graduated and certified to teach, a student must (1) meet all standards established for admission to the teacher education program, (2) make formal application for and be admitted to that program, (3) complete all requirements for certification, and (4) complete all degree requirements in the college of the University in which he is enrolled.

All graduates of The College of Education must be qualified for a teaching certificate with the exception of those

* Information on factors 5-9 should be submitted by the student, by staff members, and by personnel in appropriate offices and centers.

in the following programs which are not designed for a career in teaching: Child Development, Dietetics, Merchandising, and Food Administration in the Department of Home Economics; Recreation and Park Administration in the Department of Health, Physical Education, and Recreation; and Rehabilitation Education in the Department of Special Education and Rehabilitation.

Students must be admitted to the Teacher Education Program at least one semester prior to enrolling for student teaching. Students who enroll for student teaching for the fall semester must have been admitted by the end of the immediately preceding spring semester. Students who enroll for the spring semester must be admitted by the end of the immediately preceding summer session. (EXCEPTIONS: (1) Student with low grade(s)—A student who has filed an application for admission to the teacher education program but has not been admitted by the end of the immediately preceding spring semester or summer session because of low grades, will be allowed two weeks following the end of the semester or session to submit evidence that his grades then meet the requirements of admission. (2) Transfer student—A student who transfers from another college or university may, if enrolled for a minimum of twelve hours, apply for admission to the teacher education program during his first semester here. If he is admitted to the teacher education program that semester and if he meets all other requirements, he may be admitted to student teaching the following semester.)

Application forms for admission to the teacher education program should be obtained from Room 211A, Ball Education Building. For a detailed explanation of all requirements the student should consult with his adviser.

DIRECTED STUDENT TEACHING

Directed student teaching, offered during the fall and spring semesters in cooperating schools, provides opportunities for observation of good teaching practices and for practical teaching experiences under the direction of supervising teachers.

A limited program of student teaching for in-service teachers is offered through the summer session. Information concerning the summer program including requirements for enrolling may be obtained from the director of student teaching. Applications should be filed by April 1 immediately preced-

ing the summer session during which student teaching is desired.

Students preparing to teach in elementary school are required to enroll for at least nine semester hours of student teaching to be done on an all-day basis. Students preparing to teach in the secondary schools are required to enroll for at least nine semester hours of student teaching to be done on an all-day basis for one-half a semester or for three hours daily for an entire semester.

Students with a major in Early Childhood Education (K-3) are required to enroll for a fifteen hour professional semester during the first semester of the senior year. This professional semester includes Student Teaching, divided between primary grades and Kindergarten, and a one-week academic marathon.

NOTE: STUDENTS WHO ENROLL FOR STUDENT TEACHING MAY NOT REGISTER FOR ANY COURSE WHICH IS SCHEDULED TO MEET AT A TIME WHICH WOULD CONFLICT WITH THE STUDENT TEACHING ASSIGNMENT.

All teacher education students must observe a professional semester when they are enrolled in student teaching. During this semester, only professional courses will be taken. The professional semester for student teachers may include the following courses:

Elementary Education:

Methods: ELED 3261

Student Teaching: ELED 4821

Kindergarten:

Student Teaching: ELED 4811

NOTE: Student teaching in Elementary and Kindergarten may be taken during the same semester.

Early Childhood Education (K-3):

Student Teaching: ELED 4821 and ELED 4811

NOTE: Both must be taken during the first semester of the senior year.

Secondary Education:

SCED 4441 and appropriate elective in professional education, if not already completed

Student Teaching: SCED 4841

Distributive Education:

DTED 4630, 4641

Student Teaching: DTED 4871

Special Education:

Student Teaching: SPER 4541

NOTE: Student Teaching in Special Education and in Elementary or Secondary Education may be done during the same semester.

Grades in student teaching are reported as "S" (satisfactory) or "U" (unsatisfactory).

Requirements for enrolling for student teaching are as follows:

1. Filing of application with the director of student teaching during the semester prior to the one in which the student teaching is to be done. Applications for student teaching to be done in the fall semester must be filed by March 1; for the spring semester by October 15.
2. Admission to the teacher education program obtained at least one semester prior to enrolling for student teaching. (See page 71.)

3. Classification as a senior or graduate student.

4. Completion of at least one semester of residence at Memphis State University (minimum of twelve semester hours).

5. An over-all average of at least 2.25; an average in the endorsement area(s) of at least 2.25; an average of 2.25 in all professional education courses.

6. Completion of Foundations of Education 2011, 2111, and 3121.

7. Completion of Elementary Education 3241, 3251, 3271, and 4242 (for those preparing to teach in elementary schools); Elementary Education 2211 and 4212 (for kindergarten); or the appropriate secondary methods course(s) for those preparing to teach in secondary schools).

8. Completion of either the elementary or secondary endorsement(s).

9. Approved by the applicant's adviser and by the director of student teaching.

RESIDENCE REQUIREMENTS

Residence requirements in The College of Education are the same as those of the university as explained in detail on page 43.

ACADEMIC PROGRAMS

Degrees Offered

The College of Education offers the Bachelor of Science in Education, Bachelor of Science in Home Economics, and the Bachelor of Music Education degrees. The following outline lists the majors and areas of endorsement for each department.

ACADEMIC PROGRAMS

Department	Major (Concentration)	ENDORSEMENTS (These endorsements may accompany any major.)		Degree Offered
		Major Endorsement	Minor Endorsement	
Curriculum and Instruction	Elementary Education	Elementary Education	Kindergarten	Bachelor of Science in Education
	Early Childhood Education (K-3)			
	Secondary Education	Art Education Business Education Distributive Education English Foreign Languages French German Latin Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education	Business Education Secretarial Practice Bookkeeping, General Business, Typewriting Economics, Consumer Education, General Business, Business Law Driver Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education	

Department	Major (Concentration)	ENDORSEMENTS (These endorsements may accompany any major.)		Degree Offered
		Major Endorsement	Minor Endorsement	
Curriculum and Instruction (continued)	Secondary Education (continued)	Mathematics Math & Phys. Science Music Education Instrumental Music School Music Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama Vocational Home Economics	Library Service Mathematics Psychology Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech *Drama	Bachelor of Science in Education
Distributive Education	Distributive Education	Distributive Education		Bachelor of Science in Education
Health, Physical Education and Recreation	Health Education	Health Education	Health Education	Bachelor of Science in Education
	Physical Education (Elementary) (Secondary)	Elementary Physical Education Secondary Physical Education	Elementary Physical Education Secondary Physical Education	
	*Recreation and Park Administration			
Home Economics	*Dietetics			Bachelor of Science in Home Economics
	*Merchandising (Fashion) (Home Furnishings)			
	*Food Administration			
	*Child Development			
	Vocational Home Economics (Occupational Child Care Services) (Occupational Clothing Services) (Occupational Food Services)	Vocational Home Economics		Bachelor of Science in Education
Library Service			Library Service	
Music Education (Division of)	Music Education (General Music) (Instrumental Music) (School Music)	Music Education Instrumental Music School Music		Bachelor of Music Education
Special Education and Rehabilitation	Special Education	Special Education	Special Education	Bachelor of Science in Education
	*Rehabilitation Education (No Concentration) OR (Rehabilitation of the Public Offender) (Vocational Evaluation)			

* Not approved as a valid certification area in Tennessee.

Degree Requirements

To qualify for a degree from The College of Education, the student must complete 132 semester hours with an overall grade point average of 2.0 (on a scale in which A has the quality point value of 4; B, 3; C, 2; and D, 1). A grade point average of 2.0 is also required for all credit earned at Memphis State University, with all transferred credit from other institutions excluded.

Of the 132 semester hours required for graduation, at least 45 must be in courses from the upper division. The

lower division comprises the freshman and sophomore years, the first four semesters of University work; courses offered in the lower division are numbered 1000 through 2999. The upper division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 3000 through 4999. An overall average of 2.25 in all professional education courses, required or elective, is required. (In a course where the grade "S" or "U" is assigned the grade of

"U" will not be accepted.) Professional education courses are all undergraduate courses offered by the departments of Curriculum and Instruction, Distributive Education, Foundations of Education, Guidance and Personnel Services, and Special Education and Rehabilitation.

At least 60 semester hours of the credit applied on the degree must be of liberal content. Courses in the following fields will meet this requirement: anthropology, art (non-applied), biology, chemistry, economics, English, ge-

ography, geology, history, journalism (non-applied), languages, mathematics, music (non-applied), philosophy, physics, political science, psychology, sociology, and speech. The following courses offered in The College of Education will meet this requirement: Foundations of Education 2111, 4012, and 4021; Health 1102 and 1202; Home Economics 1101, 1104, 2101, and 2202.

General requirements for the degree include the successful completion of (I) the general education program, (II) the professional education program, (III) physical education activity courses, (IV) a major in The College of Education, and (V) endorsement in one or more teaching areas. Majors in Child Development, Dietetics, Merchandising, and Food Administration in the Department of Home Economics, and majors in Recreation and Park Administration in the Department of Health, Physical Education, and Recreation, and majors in Rehabilitation Education in the Department of Special Education and Rehabilitation, complete only those professional education courses (II) specified in their programs and do not complete an endorsement (V) since they are not qualifying for a teaching certificate. These requirements are outlined in detail in the sections which follow.

I. THE GENERAL EDUCATION PROGRAM (45 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements of Section V, below.)

English (12 semester hours): English 1101, 1102, and any two of the following: 2101, 2102, 2103, 2104, 2105.

Health and Personal Development: Health 1102, and one of the following: Home Economics 1101, Psychology 1101.

Humanities: Elective from one of the following: Art (non-applied), Foreign Languages (2000 level or above), Music (non-applied), and Philosophy.

Speech: Speech 2911 or 1411 for elementary or early childhood certification; Speech 1211 or 1311 or 1411 for secondary certification.

Natural Sciences: 9 semester hours (including one two-semester laboratory sequence) in two of the following sciences: biology, chemistry, physics, earth sciences (defined for purpose of this requirement to include Geography 1101, 1102, 4111, 4121, 4122, 4131 and any course in geology.)

Note: Laboratory sequences possible in earth sciences are Geography 1101 and 1102, or Geology 1101 and 1201, or Geography 1101 and Geology 1101.

Social Sciences: History 2601, 2602 (6 semester hours), and an elective from one of the following: anthropology, economics, geography (other than the earth science courses listed above), political science, and sociology.

Mathematics: Mathematics 1181 for elementary, early childhood or special education

certification; Mathematics 1181 or any higher-numbered mathematics course for secondary certification.

II. THE PROFESSIONAL EDUCATION PROGRAM (30-45 semester hours)

A. Core courses: Foundations of Education 2011, 2111, 3121; SPER 2000.

B. Courses in one or more of the following groups according to the area(s) of certification desired:

1. FOR THE ELEMENTARY CERTIFICATE: Elementary Education 3241, 3251, 3261, 3271, 4242, 4243, 4821 (9 semester hours), and EDUC 3301 and 4344, for a total of 45 semester hours.

2. FOR THE EARLY CHILDHOOD (K-3) CERTIFICATE: Elementary Education 3412, 4212, 4242, 4821 (6 sem. hrs.) and 4811 (9 sem. hrs.) for a total of 36 semester hours.

3. FOR ENDORSEMENT IN DISTRIBUTIVE EDUCATION: Distributive Education 4630, 4871 (9 semester hours), 4641 and one education elective applicable for secondary school teachers, for a total of 30 semester hours.

4. FOR THE SECONDARY CERTIFICATE: Secondary 4441, 4841 (9 semester hours), appropriate secondary school methods course(s)*, and one elective applicable for secondary school teachers, for a total of 30 semester hours. (Music Education 4401 may be used to satisfy the secondary education elective for students completing a major endorsement in Music Education.)

5. FOR SPECIAL EDUCATION CERTIFICATE: Special Education and Rehabilitation 3012, 4012, 4541 (9 semester hours), and Elementary Education 3241, 4242, for a total of 30 semester hours.

A student may elect to obtain an endorsement in either Elementary or Secondary Education which would require the professional education and content courses for that area(s). A student obtaining an endorsement in Special Education and Elementary or Secondary Education is required to complete six (6) semester hours of student teaching in Special Education (SPER 4541) and six (6) semester hours in either Elementary (ELED 4821) or Secondary Education (SCED 4841). The Special Education student completing requirements for a Secondary Certificate may use the method course Special Education and Rehabilitation 3012 to satisfy the Secondary elective.

NOTE: Students will be required to take appropriate specialized methods course in each endorsement area, major or minor. In several endorsement areas, additional professional courses are required. The following list identifies the methods course and additional professional education courses required for each subject area:

Art: Secondary Education 3321 (same as Art 4421)

Business: For Major Endorsement, Secondary Education 3381 and 3382

For Minor Endorsement, Secondary Education 3381 OR 3382; special section of EDUC 3901 (1 semester hour)

For Specific Endorsements, Secondary Education 3381 OR 3382, the applicable courses depending on endorsements selected.

Driver Education: No methods course is offered.

English: Secondary Education 3341. For Major Endorsement, Secondary Education 4341 and 4344 (additional requirements, one of which can be used to satisfy the secondary education elective.)

Foreign Language: Secondary Education 3342 (French), 3343 (German), 3344 (Latin), 3345 (Spanish), 3347 (Russian).

Health Instruction: Health 3102

Home Economics (Vocational Home Economics): Secondary Education 3383

Industrial Arts: Secondary Education 3384

Library Service: No methods course is offered.

Mathematics: Secondary Education 3351. An additional methods course, Elementary Education 3251 is required for Major Endorsement and highly recommended for Minor Endorsement.

Mathematics and Physical Science: Secondary Education 3351 and/or 3362.

Music: Secondary Education 3322

Physical Education: Physical Education 3803

Psychology: Secondary Education 3372

Science: Secondary Education 3361 (Biology), 3362 (Chemistry, Physics, General Science, and Earth and Space Science)

Social Studies: Secondary Education 3371

Speech: Secondary Education 3346

III. PHYSICAL EDUCATION ACTIVITY COURSES

Four semester hours of physical education activity courses; for exceptions and details see pages 46 and 137.

IV. A MAJOR IN THE COLLEGE OF EDUCATION

The student will choose one of the following majors offered in The College of Education. The specific courses required for the satisfaction of these majors are listed in the following pages.

Distributive Education
Early Childhood Education
Elementary Education
Health Education
Home Economics
Music Education
Physical Education
Recreation and Park Administration
Rehabilitation Education
Secondary Education
Special Education

V. SPECIFIC SUBJECT ENDORSEMENT

Students must complete requirements in at least one major endorsement area. The student may elect to complete requirements for more than one major endorsement or for a major endorsement and one or more minor endorsements. The minimum number of hours required for a major or minor endorsement varies according to the characteristics and needs of different subject areas.

Students will be required to take an appropriate specialized methods course in each endorsement area, major or minor. In several endorsement areas additional professional courses may be required as needed to meet recommendations of various accrediting and professional agencies. Student teaching must be taken in the student's major endorsement area.

A grade point average of 2.25 in each endorsement is required. To be included in the computation are grades assigned in all courses attempted, required or elective, in each area of endorsement. Semester hours completed as electives in excess of the number of hours required in each endorsement shall be included. EXCEPTION: For endorsement in Elementary Education only the required courses shall be included. (Choose A,

B, C, D, E, F, or G, H, or I, or combination of these.)

(Courses taken to meet the requirements of Section I, above, may if applicable, be used to meet any part of the requirements of this section.)

A. Elementary Certificate (48 semester hours)

Art 3411
Biology 2001 and 2002 OR Biology 1200 and 1600 and 3050
Geography 2301, 2311
Health 3306
Library Service 4111
Mathematics 1182, 2581
Music Education 3001

Physical Education 3806. One additional hour of physical education mandatory to meet certification requirements.

Physical Science 1031, 1032

NOTE: Students with adequate high school background in both chemistry and physics may take at least six semester hours in any combination from the areas of astronomy, chemistry, earth science, geology, or physics instead of Physical Science 1031 and 1032.

Social Science — Two courses (6 semester hours) from the following social sciences: cultural anthropology, economics, history (other than History 2601, 2602), political science, or sociology.

Speech 2911 OR 1411

B. Kindergarten through Grade 3 Endorsement

To add an endorsement in Kindergarten through Grade 3 to a certificate in Elementary Education (grade 1-9), the student must complete the requirements for the elementary certificate and, in addition, must complete Elementary Education 2211, 4212, and 4811.

C. Early Childhood Education (K-3)

The following program in Early Childhood Education has been approved by the State of Tennessee as a special program. It does not meet requirements for certification in Elementary Education (grades 1-9), but is designed for the student who desires certification in kindergarten through third grade only.

EARLY CHILDHOOD EDUCATION MAJOR.

1. Supportive Content (30 hours)

Health 2102, Humanities 3 hours (Elective from Applied Art or Applied Music), MATH 1182 or 2581, Science 3 hours (Elective from Biology or Earth Science plus science listed in General Education), Social Science six hours (Elective from Anthropology, Economics, Geography or Sociology), SPCH 1411 or 2911.

2. Early Childhood Education (15 hours)

HMEC 2101 and 4101; ELED 2211, 3212, and 4411.

3. *Area of Specialization (6-12 hours)

A minimum of six hours constitutes a specialization area. Some areas require more than six hours. The areas of specialization presently identified are: Elementary Education, Library Service, Mathematics, Child Development, Geography, Biology, Special Education, Physical Education, Health, Reading and Language, and Psychology.

4. *Electives (5-11 hours)

*At least nine (9) hours of upper division courses must be included in the area of specialization and/or from the electives.

D. Special Education

**NOTE: Effective September 1, 1980, certifica-

tion in Educable Mentally Retarded will be discontinued. The following programs lead toward certification in Special Education, an endorsement which will be available when approved by the State Department of Education. See footnote for details.

Major Endorsement (42 semester hours), Special Education and Rehabilitation 2000, 3003, 3013, 3014, 3201, 3401, 3501, 3516, 3901, 4002, 4013, Art 3411 or Technology 4375, Mathematics 1182, Physical Education 3303 or 3806.

*Minor Endorsement (33 semester hours), Special Education and Rehabilitation 2000, 3003, 3013, 3014, 3201, 3401, 3501, 3516, 3901, 4002, 4013.

*Minor Endorsement can be taken only when combined with a major endorsement area which is certifiable by the State of Tennessee.

E. Library Service

Major Endorsement — Not available

Minor Endorsement (21 semester hours)

Library Science 4111, 4121, 4131, 4401, 4232, 4331, EDUC 4301

For certification in Library Service, a student must complete all requirements for either the elementary certificate (Grade 1-9) or the secondary certificate with a Major Endorsement in a subject area (Grades 7-12).

F. Elementary Physical Education (Grades K-9)

Major Endorsement: (49 semester hours)

Physical Education 1103, 1581, 1621, 1713, 1813, 2003, 2903, 3303, 3403, 3703, 3816, 3826, 3836, 3846, 4204

Four one-hour activity electives, to include one team sport activity and one individual and dual activity.

Biology 1631, 1632

Electives (6 semester hours) to include no more than 2 activity courses

The Minor Endorsement: 34 semester hours, as follows:

Physical Education 1103, 1581, 1621, 1713, 1813, 2903, 3303, 3403, 3703, 3846, 4204

One of the following courses: Physical Education 3816, 3826, 3836

Four two-hour activity electives

Biology 1631, 1632

G. VOCATIONAL CERTIFICATES

1. DISTRIBUTIVE EDUCATION

Major Endorsement (27-30 semester hours)

Management 1010

Accounting 2010

Economics 2110, 2120

Marketing 3010, 3140, 3320, 3410

Marketing 4991 OR two years practical experience in one or more distributive occupations.

Elective in Business Administration (3 semester hours), selected in conference with adviser.

Minor Endorsement—Not available

2. VOCATIONAL HOME ECONOMICS

Major Endorsement (41 semester hours)

**A new program for certification of Special Education teachers in Tennessee will become effective on September 1, 1980. The Major and Minor Endorsements in this catalog are designed to satisfy that new program. At the time this catalog was printed, these programs had not yet been approved by the State Department of Education, but approval is expected prior to the 1977-78 school year. Therefore, a student seeking Special Education certification should consult with his adviser concerning the program as it was approved.

Home Economics 1100, 1101, 1104, 1105, 2101, 2102, 2202, 3305, 3405, 4100, 4103, 4104, 4203, electives (6 semester hours).

The following optional certification areas require the completion of the Major Endorsement in Vocational Home Economics in addition to the courses specified in the desired area(s).

a. Occupational Child Care Services (additional 21 semester hours)

Home Economics 3393, 4101, 4301, 4401.

Elementary Education 3212, 3412, 4411.

b. Occupational Food Services (additional 21 semester hours)

Home Economics 3393, 3602, 3702, 3802, 3902, 4402, 4502.

c. Occupational Clothing Services (additional 21 semester hours)

Home Economics 2205, 3305, 3393, 3505, 4305, 4315.

Minor Endorsement—Not available

H. CERTIFICATES FOR GRADES K-12

To receive a certificate for Grades 1-12 in the following areas of endorsement, the student must complete requirements for secondary certification.

1. ART EDUCATION

Major Endorsement (36-39 semester hours)

Art 1101 (OR 2101 and 2102), 1201, 1204, 1311, 1314, 2201, 2313, 3411, 3421, 4167, 4168, 4424.

Minor Endorsement—Not available

2. HEALTH EDUCATION (Grades K-12)

Major Endorsement: (43 semester hours)

Health 1102, 1202, 1302, 2102, 2202, 3202, 4102, 4702

Biology 1631, 1632, 3400

Chemistry 1000

Home Economics 2202

Electives (3 semester hours) to be chosen from the following academic areas in consultation with adviser: Biology, Educational Foundations, Elementary Education, Guidance, Health Education, Home Economics, Physical Education, Psychology, Secondary Education, Sociology, and Special Education. Courses required in general education and professional education programs cannot be used to satisfy health education electives

Minor Endorsement: (33 semester hours)

Health 1102, 1202, 1302, 2102, 3202, 4102

Biology 1631, 1632, 3400

Home Economics 2202

Electives (3 semester hours) to be chosen from the areas listed for Major Endorsement electives.

NOTE: It is recommended that Chemistry 1000 be taken to satisfy the second area of science required in General Education.

3. MUSIC EDUCATION

Major Endorsement (46-50 semester hours)

Certification in Music Education requires the completion of (a) a group of basic courses and (b) a group of courses in at least one of two areas of emphasis.

a. Basic Courses (24 semester hours)

MUTC 1004, 1005, 1006, 3001 (14)

MUSE 3701 (3)

Music Elective (3)

Music ensembles (4 hours of large ensembles)

b. Areas of Emphasis

(1) School Music (vocal emphasis) (23 semester hours)

Music Education 4202, 4203, 4701
 Applied Music (14 semester hours)
 Music Education 1101 *OR* 1104
 Piano—Class Instruction or Individual Lessons (4 semester hours)
 Voice—Class Instruction or Individual Lessons (4 semester hours)
 Additional individual lessons above the Preparatory Level in either Piano or Voice (4 semester hours)

(2) Instrumental Music (24 semester hours)

Music Education 1103, 4203, 4204
 Applied Music (17 semester hours)
 Music Education 1101, 1104, 1109, 1110
 Piano—Class Instruction or Individual Lessons (4 semester hours)
 Voice—Class Instruction or Individual Lessons (2 semester hours)
 Individual lessons on one band or orchestral instrument of major emphasis (6 semester hours)

Minor Endorsement—Not available

I. SECONDARY CERTIFICATE

1. BUSINESS EDUCATION

Students seeking endorsement in Business Education must complete a Business Education Core (a) of 18 semester hours, and complete either the requirements for a Major Endorsement (b) or a Minor Endorsement (c). Endorsement in specific subjects is optional (d), but cannot be taken without completing the Major or Minor Endorsement requirements. For computation of the grade point average, each endorsement in business includes the 18 semester hours of basic requirements.

a. Business Education Core (18 semester hours)

Accounting 2010, 2020 (6 semester hours)
 Economics 2110, 2120 (6 semester hours)
 Management 1010 *OR* FIR 3011 (3 semester hours)
 Office Administration 3510 *OR* Mathematics 2291 (3 semester hours)

b. Major Endorsement (22 semester hours plus 18 hours core)

Accounting 3010 *OR* 3110; 2720
 Office Administration 4270; 4320 *OR* 4330 *OR* 4400 *OR* 4410
 Six semester hours in shorthand, including one course in advanced shorthand
 Six semester hours in typewriting, including one course in advanced typewriting

NOTE: Mathematics 2291 must be added, if not taken as part of core.

c. Minor Endorsements (10-18 semester hours plus 18 hour core)

1. **Secretarial Practice** (18 semester hours)
 Office Administration 4270; 4320 *OR* 4330 *OR* 4400 *OR* 4410
 Six semester hours in shorthand, including one course in advanced shorthand
 Six semester hours in typewriting, including one course in advanced typewriting

2. **Bookkeeping — General Business — Typewriting** (10 semester hours)

Accounting 2720, 3010 or 3110
 Six semester hours in typewriting, including one course in advanced typewriting

NOTE: Mathematics 2291, Management 1010 and FIR 3011 must be added, if not taken as part of core.

3. Economics — Consumer Education — General Business — Business Law (15 semester hours)

Economics 3610
 FIR 3130, 3410
 Home Economics 4103

NOTE: Mathematics 2291, Management 1010 and FIR 3011 must be added, if not taken as part of core.

d. Specific Business Endorsements (18 hours core must also be completed)

1. Bookkeeping (4 semester hours)
 Accounting 2720; 3010 *OR* 3110
2. Business Arithmetic (3 or 6 semester hours)
 Mathematics 1211 and 2291 (may be included in core)
3. Business English (0 or 3 semester hours)
 Office Administration 3510 (may be included in core)
4. Business Law (3 or 6 semester hours)
 FIR 3011 (may be included in core), 3130
5. Business Machines (3 semester hours)
 Office Administration 4270
6. Consumer Education (3 semester hours)
 Home Economics 4103
7. Economics (6 semester hours)
 Economics 3610, FIR 3410
8. General Business (6 semester hours)
 FIR 3011 (may be included in core) *OR* 3130
 Mathematics, 3 hours chosen in conference with adviser

NOTE: Management 1010 must be added, if not taken as part of core.

9. Office and Clerical Practice (3 semester hours)
 Office Administration 4320 *OR* 4330 *OR* 4400 *OR* 4410
10. Salesmanship (6 semester hours)
 Marketing 3010, 3410
11. Secretarial Practice (15 semester hours)
 Endorsement in Office and Clerical Practice, Shorthand and Typewriting
12. Shorthand (6 semester hours)
 Six semester hours in Shorthand, including one course in advanced shorthand
13. Typewriting (6 semester hours)
 Six semester hours in Typewriting, including one course in advanced typewriting

2. DRIVER EDUCATION

Major Endorsement—Not available

Minor Endorsement—21 semester hours

Health 2102, 2202
 Secondary Education 3335, 3336, or 4337
 Electives—9 semester hours selected from the following:
 Advanced driver education
 Multi-media instruction
 Special education

3. ENGLISH

Major Endorsement (36 semester hours)
 12 hours freshman and sophomore level courses: English 1101, 1102, and any two of the following: 2101, 2102, 2103, 2104, 2105, 2106; 24 upper division

hours: English 3321 *OR* 4321; 3322 *OR* 4322; 4232 *OR* 4233; 3501; 4501; 4602; 3211 *OR* 3212 *OR* 3213 *OR* 3214; 3221 *OR* 3222 *OR* 3223 *OR* 3224

Minor Endorsement (30 semester hours)

12 semester hours freshman and sophomore level courses (same as required for Major Endorsement)

18 upper division semester hours: English 3321 *OR* 4321; 3322 *OR* 4322; 4232 *OR* 4233; 3501 *OR* 4501; 4602; and any one of the following: 3211, 3212, 3213, 3214, 3222, 3223, 3224.

*4. FOREIGN LANGUAGES

Endorsement may be obtained in French, German, Latin, Russian and/or Spanish. Two or more high school units of one foreign language may be used in lieu of freshman level courses in that language. Credit in any of the lower division courses may be earned by proficiency.

a. French

Major Endorsement (33 semester hours)

Lower division French, or the equivalent (12 semester hours)

French 3301, 3302, 3411, 3412, 4301, 4305, 4501

Minor Endorsement (24 semester hours)

Lower division French, or the equivalent (12 semester hours)

Four upper division courses, selected from the following:

French 3301, 3302, 3411, 3412, 4301, 4305, 4501

b. German

Major Endorsement (33 semester hours)

Lower division German, or the equivalent (12 semester hours)

German 3301, 3302, 3410, 3411, 3412, 4501

Minor Endorsement (24 semester hours)

Lower division German, or the equivalent (12 semester hours)

Four upper division courses, selected from the following:

German 3301, 3302, 3410, 3411, 3412, 4501

*Students electing a Major Endorsement in German must complete requirements for another Major Endorsement or Minor Endorsement in a complementary teaching area.

c. Latin

Major Endorsement (33 semester hours)

Lower division Latin, or the equivalent (12 semester hours)

Latin 3111, 3211, 3411, 3511, 3811, 3912, 4711

Minor Endorsement (24 semester hours)

Lower division Latin, or the equivalent (12 semester hours)

Four upper division courses, selected from the following:

Latin 3111, 3211, 3411, 3511, 3811, 3912, 4711

**Students electing a Major Endorsement in Latin must complete requirements for another Major Endorsement or Minor Endorsement in a complementary teaching area.

d. Russian

Major Endorsement—Not available

Minor Endorsement (24 semester hours)

Lower division Russian, or the equivalent (12 semester hours)

Four upper division courses, selected from the following:

Russian 3301, 3302, 3411, 3412, 3441, 3442, 3443

e. Spanish

Major Endorsement (33 semester hours)

* Changes are in process—consult your advisor.

Lower division Spanish, or the equivalent (12 semester hours)
 Spanish 3301, 3302, 3411 and 3412 OR 3511 and 3512, 4301, 4302, 4501
Minor Endorsement (24 semester hours)
 Lower division Spanish, or the equivalent (12 semester hours)
 Four upper division courses, selected from the following:
 Spanish 3301, 3302, 3411, 3412, 3511, 3512, 4301, 4302, 4501

5. INDUSTRIAL ARTS EDUCATION

Major Endorsement (45 semester hours)
 Technology 1511, 1611, 1711, 1811, 1821, 2555, 2911, 3350, 3601, 3718, 4355. Six semester hours from the following: Art 2213, 2221 or Journalism 3111. Six semester hours electives in Technology.
**Minor Endorsement* (39 semester hours)
 Technology 1511, 1611, 1711, 1811, 1821, 2555, 2911, 3350, 3601, 3718, 4355. Six semester hours from the following: Art 2213, 2221 or Journalism 3111.
 Completion of the specified courses required for the major and the minor endorsements leads toward certification in Industrial Arts. Additional certification in the following single subjects may be earned by completing 3 additional hours in each area desired:
 Drafting (Tech. 2511 or 2512 is recommended)
 Electricity/Electronics (Tech. 2821 or 3841 is recommended)
 Metals (Tech. 3781 is recommended)
 Plastics (Tech. 3410 is recommended)
 Wood (Tech. 2611, 2651, or 3611 or 3631 is recommended)
**Students seeking endorsement in Industrial Arts should take the following courses, which may be used to fulfill General Education requirements:*
 Math 1213, Chem. 1051, Physics 1111 and 1112.

6. MATHEMATICS

Major Endorsement (32 semester hours)
**Mathematics 1212*
 Mathematics 1321, 2321
 One course in each of the following areas:
 Geometry (Math 2581 is recommended)
 Probability (Math 4631 is recommended)
 Computer Programming (Math 4710 is recommended)
 Theory of Numbers (Math 4221 is recommended)
 History of Mathematics (Math 4151 is recommended)
 Six semester hours from the following courses:
 Mathematics 2322, 2611, 3111, 3241, 4261, 4111, 4171, 4241, 4411, 4611
Minor Endorsement (20 semester hours)
**Mathematics 1212*
 Mathematics 1321, 2321
 Nine semester hours from the following courses:
 Mathematics 2322, 2581, 2611, 3111, 3241, 3262, 4111, 4151, 4171, 4221, 4241, 4411, 4611, 4631, 4710
**If a student's performance on the Mathematics Department Placement Test makes it possible for him to receive credit for Math 1212, then he is advised to pay the required fee (\$15.00) and get the credit for the course.*
 NOTE: Students in the Honors Program in Mathematics may use Mathematics 1401, 1402, 2401, and 2402 to satisfy the following requirements: Mathematics 1212, 1321, 2321, 2611, and 3241.

7. MATHEMATICS AND PHYSICAL SCIENCE

Major Endorsement (52 semester hours)
 Mathematics 1212, 1321, and 7 hours of electives in mathematics
 Chemistry 1111, 1112
 Physics 2111 and 2112 OR 2511 and 2512
 Physical Geography or Geology (8 semester hours)
 Math and/or Physical Science electives (14 semester hours)
Minor Endorsement—Not available

8. PHYSICAL EDUCATION (Secondary)— Grades 7-12

Major Endorsement: (54-55 semester hours)
 Health 2102 or 3502
 Physical Education 1103, 1502, 1572, 1621, 1713, 1813, 1923, 2003, 2903, 3203, 3303, 3403, 3503, 3703, 4204, 4503
 For Men: Physical Education 1431, 1941 and two of the following courses: Physical Education 2103, 2203, 2303, 2403, 2503, 2803
 For Women: Physical Education 1821, 1921, 3103
 Biology 1631, 1632
Minor Endorsement: (48-49 semester hours)
 Physical Education 1103, 2903, 3303, 3403, 3703, 4204, 4503
 Choose alternative A or B
 A. Two of the following courses: Physical Education 2103, 2203, 2303, 2403, 2503, 2803
 B. One of the following courses: Physical Education 3103, 3203, 3503
 Eight activity courses
 For Men: Physical Education 1431, 1502, 1572, 1621, 1713, 1813, 1923, 1941
 For Women: Physical Education 1502, 1572, 1621, 1713, 1813, 1821, 1921, 1923
 Biology 1631, 1632

9. PSYCHOLOGY

Major Endorsement—Not available
Minor Endorsement—(21-22 semester hours)
 A. Psychology 1101; Psychology 2302 or Sociology 3322; Psychology 3302 or Sociology 3701; Psychology 4101.
 B. Six semester hours chosen from the following areas: Developmental Psychology (Psychology 3103); Abnormal Psychology (Psychology 3102); Personality Dynamics (Psychology 3101); Child Psychology; Adolescent Psychology (Educational Psychology 4112 or Sociology 4760).
 C. Three semester hours of electives: The electives may be selected from any undergraduate courses taught in the Department of Psychology; courses in Educational Psychology* (EDPS) taught in the Department of Educational Foundations; or Sociology 4760. The student may not count both Psychology 3302 and Sociology 3701, or both Educational Psychology 4112 and Sociology 4760, in meeting endorsement requirements.
**Courses taken in Educational Psychology (EDPS) may not be counted toward fulfilling both professional education and endorsement requirements.*

10. SCIENCE

a. Biology

Major Endorsement (35 semester hours)
 Biology 1200, 1600, 2000, 3050, 3070, 3100, 3500

Chemistry 1111, 1112 (Corequisite: Math 1211(1212, or 1321)

Minor Endorsement (23 semester hours)
 Biology 1200, 1600, 2000, 3070
 Chemistry 1111, 1112 (Corequisite: Math 1211(1212, or 1321)

b. Chemistry

Major Endorsement (32 semester hours)
 Chemistry 1111, 1112, 3301, 3302, 3311, 3312, 3400, 3401, 3404, 3407
 Physics 2111, 2112 (Prerequisite: Math 1212)
Minor Endorsement (20 semester hours)
 Chemistry 1111, 1112, 3301, 3302, 3311, 3312, 3400, 3404

c. Physics

Major Endorsement (33 semester hours)
 Physics 1811, 1812, 2111, 2112 (Prerequisite: Math 1212), 3010, 3211, 3510
 Chemistry 1111, 1112
Minor Endorsement (26 semester hours)
 Physics 1811, 1812, (OR an approved Physics elective), 2111, 2112 (Prerequisite: Math 1212), 3010
 Chemistry 1111, 1112

d. General Science

Major Endorsement (37 semester hours)
 Biology 1200, 1600, 2000, 3070
 Chemistry 1111, 1112 (Corequisite: Math 1211, 1212 or 1321)
 Physics 1811, 2111 and 2112 (Prerequisite: Math 1212)
 Earth Science elective (3 semester hours)
Minor Endorsement (23 semester hours)
 Biology 1200, 1600
 Chemistry 1111, 1112 (Corequisite: Math 1211, 1212 or 1321)
 Physics 2111 (Prerequisite: Math 1212)
 Earth Science elective (3 semester hours)

e. Earth and Space Sciences

Major Endorsement (33 semester hours)
 Geology 1101, 1201, 2312, 3100
 Physics 1811
 Geography 1101, 3502, 4111, 4122, 4131
Minor Endorsement (23 semester hours)
 Geology 1101, 2312, 3100
 Physics 1811
 Geography 1101, 4111, 4131

11. SOCIAL STUDIES

a. Economics, Geography, Government, and Sociology

**Major Endorsement* (30 semester hours)
 24 semester hours of work in the designated major area, selected in consultation with adviser, of which at least 18 hours must be in upper division courses.

Up to 6 hours may be taken in cognate social science areas supportive to the major (excluding History 2601, 2602), and selected in consultation with adviser.

**NOTE: These four areas may be selected as Major Endorsement areas only if taken in combination with a Major or Minor Endorsement in History or with a Major Endorsement in some other teaching area of endorsement.*

Minor Endorsement (18 semester hours)
 12 semester hours of upper division courses in the designated major area, selected in consultation with adviser.
 Up to 6 hours may be taken in cognate social science areas supportive to the minor (excluding History 2601, 2602), and selected in consultation with adviser.

b. History

Major Endorsement (36 semester hours)
History 2601, 2602

European and/or World History courses
(6 semester hours)

Upper division History courses, selected in consultation with adviser (12 semester hours)

Electives, selected in consultation with adviser (12 semester hours), may be additional history courses, or in the following areas:

Up to 6 hours may be taken in historical courses which do not have to be offered by the History Department (excluding History of Education).

Up to six hours may be taken in cognate social science areas supportive to the major (Economics, Sociology, Political Science, Geography, Anthropology).

Minor Endorsement (24 semester hours)
History 2601, 2602

European and/or World History courses
(6 semester hours)

Upper division history courses, selected in consultation with adviser (6 semester hours)

Electives, selected in consultation with adviser (6 semester hours)

These electives may be taken in historical courses which do not have to be offered by the History Department (excluding History of Education), or in cognate social science areas supportive to the minor (Economics, Sociology, Political Science, Geography, Anthropology).

12. SPEECH AND DRAMA

Major Endorsement (36 semester hours)
Speech 1211; 1311 and 2781 OR Speech 1781 and 2321; 1411; 2511; 3371 OR 3372 OR 3881; 3521; 1551 OR 3551 OR 3552; 4361 OR 4362 OR 4366; 4101 OR 4341 OR 4371; 4921; 4922

Minor Endorsement in Speech (21-22 semester hours)

Speech 1211 or 3823; 1411; 1551; 1311 or 1781; 2321 or 4922; 3411 or 3461; 4921 or 3521.

Two courses 1411 and 1551 will be required of all students. Students who do not need help with diction may elect to take 3823 rather than 1211. If 3823 is taken the student will have 22 hours rather than 21 because 3823 is a 4 hour course.

**Minor Endorsement* in Drama (21 semester hours)

Speech 1211, 1411, 3551 OR 3553, 2511, 3521, 4921

Theatre elective (3 semester hours)

*This area is not presently an approved certification area by the State of Tennessee.

Requirements for Majors and Minors

ADULT EDUCATION. No courses are offered in adult education at the undergraduate level. Students who plan graduate study in this area should consult The Bulletin of the Graduate School.

DEPARTMENT OF CURRICULUM AND INSTRUCTION. The Department of Curriculum and Instruction offers majors

and minors in elementary education and secondary education, and a major in Early Childhood Education.

ELEMENTARY EDUCATION:

The Major: 45 semester hours, as follows: EDFD 2011; EDPS 2111, 3121; and ELED 3241, 3251, 3261, 3271, 4242, 4243, 4821 (9 semester hours); EDUC 3301, 4344; SPER 2000.

The following must also be completed: (1) the requirements of general education, (2) the elementary endorsement.

The Minor: Same as elementary education major.

SECONDARY EDUCATION:

The Major: 30-33 semester hours, as follows: EDFD 2011; EDPS 2111, 3121; SCED 4441, 4841; SPER 2000; appropriate secondary school methods courses, one elective appropriate for secondary school teachers. The requirements of general education and at least one major endorsement must be completed.

The Minor: Same as secondary education major.

EARLY CHILDHOOD:

The Major: 36 semester hours as follows: EDFD 2011; EDPS 2111, 3121; and ELED 3412, 4212, 4242, 4821 (6 semester hours), 4811 (9 semester hours), and SPER 2000.

The following must also be completed:

1. The requirements of General Education.

2. Supportive Content (30 hours)

HLTH 2102, Humanities 3 hours (Elective from Applied Art or Applied Music), MATH 1182 or 2581, Science 3 hours (Elective from Biology or Earth Science plus science listed in General Education), Social Science six hours (Elective from Anthropology, Economics, Geography or Sociology), SPCH 1411 or 2911.

3. Early Childhood Education (15 hours)
HMEC 2101 and 4101; ELED 2211, 3212, and 4411.

4. *Area of Specialization (6-12 hours)

A minimum of six hours constitutes a specialization area. Some areas require more than six hours. The areas of specialization presently identified are: Elementary Education, Library Service, Mathematics, Child Development, Geography, Biology, Special Education, Physical Education, Health, Reading and Language, and Psychology.

5. *Electives (5-11 hours)

*At least nine (9) hours of upper division courses must be included in the area of specialization and/or from the electives.

DEPARTMENT OF DISTRIBUTIVE EDUCATION. The Department of Distributive Education offers a major and a minor in distributive education.

DISTRIBUTIVE EDUCATION:

The Major: (33 semester hours)
EDFD 2011; EDPS 2111, 3121; SPER 2000; DTED 3010, 4630, 4641, 4871, and three semester hours of electives in Distributive Education or EDUC 4301 or GUID 4611
A minimum of 27 semester hours in marketing and business administration
MGMT 1010
ACCT 2010
ECON 2110, 2120

MKTG 3010, 3140, 3320, 3410

Electives in Business Administration (3 semester hours) selected in conference with adviser

MKTG 4991 or two years of verified practical experience in one or more distributive occupations

The Minor: Recommended for majors in Marketing and in Fashion Merchandising. A requirement for the minor is the completion of the requirements for certification to teach in the State of Tennessee. Requirements for the minor are the same as distributive education major.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION.

The Department of Educational Administration and Supervision does not offer courses at the undergraduate level leading to a degree program. Students who plan graduate study in this area should consult The Bulletin of The Graduate School.

DEPARTMENT OF FOUNDATIONS OF EDUCATION. The Department of Foundations of Education does not offer a major or minor at the undergraduate level. Students who plan graduate study in this area should consult the Department Chairman.

DEPARTMENT OF GUIDANCE AND PERSONNEL SERVICES. The Department of Guidance and Personnel Services offers majors at the Graduate level only.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. Majors and/or minors are offered in (1) health, (2) physical education, and (3) recreation and park administration. The recreation and park administration major will not satisfy teacher certification requirements or any endorsement area in The College of Education.

THE MAJOR IN PHYSICAL EDUCATION (Choose concentration in Elementary or Secondary Physical Education)

Concentration in Elementary Physical Education: (58 semester hours)

PHED 1103, 1581, 1621, 1713, 1813, 2003, 2903, 3303, 3403, 3703, 3816, 3826, 3836, 3846, 4204

Four activity electives, to include one team sports activity and one individual and dual sports activity.

BIOL 1631, 1632

Electives (6 semester hours) to include no more than 2 activity courses

Concentration in Secondary Physical Education: (54-55 semester hours)

HLTH 2102 or 3502

PHED 1103, 1502, 1572, 1621, 1713, 1813, 1923, 2003, 2903, 3203, 3303, 3403, 3503, 3703, 4204, 4503

For Men: PHED 1431, 1941, and two of the following courses: PHED 2103, 2203, 2303, 2403, 2503, 2803

For Women: PHED 1821, 1921, 3103

BIOL 1631, 1632

THE MINOR IN PHYSICAL EDUCATION (Choose concentration in Elementary or Secondary Physical Education)

Concentration in Elementary Physical Education: (43 semester hours)

PHED 1103, 1581, 1621, 1713, 1813, 2903, 3303, 3403, 3703, 3846, 4204

One of the following courses: PHED 3816, 3826, 3836

Four two-hour activity electives
BIOL 1631, 1632

Concentration in Secondary Physical Education: (48-49 semester hours)

PHED 1103, 2903, 3303, 3403, 3703, 4204, 4503

Choose alternative A or B

A. Two of the following courses: PHED 2103, 2203, 2303, 2403, 2503, 2803

B. One of the following courses: PHED 3103, 3203, 3503

Eight activity courses

For Men: PHED 1431, 1502, 1572, 1621, 1713, 1813, 1923, 1941

For Women: PHED 1502, 1572, 1621, 1713, 1813, 1821, 1921, 1923

BIOL 1631, 1632

HEALTH EDUCATION (GRADES K-12)

The Major: 43 semester hours, as follows:

HLTH 1102, 1202, 1302, 2102, 2202, 3202, 4102, 4702

BIOL 1631, 1632, 3400

CHEM 1000

HMEC 2202

Electives (3 semester hours) to be chosen from the following academic areas in consultation with advisor: Biology, Educational Foundations, Elementary Education, Guidance, Health Education, Home Economics, Physical Education, Psychology, Secondary Education, Sociology, and Special Education. Courses required in general education and professional education programs cannot be used to satisfy health education electives.

The Minor: 33 semester hours, as follows:

HLTH 1102, 1202, 1302, 2102, 3202, 4102

BIOL 1631, 1632, 3400

HMEC 2202

Electives (3 semester hours) to be chosen from the areas listed for Major Endorsement electives.

NOTE: It is recommended that CHEM 1000 be taken to satisfy the second area of science required in General Education.

THE MAJOR IN RECREATION AND PARK ADMINISTRATION

General Education Program (61 semester hours)

ENGL 1101, 1102, and any two of the following: 2101, 2102, 2103, 2104, 2105, 2106

Natural Science: 9 semester hours (including one two-semester laboratory sequence) in two of the following sciences: biology, chemistry, physics, earth sciences (defined for purposes of this requirement to include Geography 1101, 1102, 4111, 4121, 4122, 4131, and any course in geology.)

HIST 2601, 2602

PSYC 1101, 1102

SOCI 1111, elective (3 semester hours)

ANTH 1200

MATH 1181 or 1211

Humanities: one course from two of the following areas: Art, Music, Drama
SPCH 1211 or 1311 or 1411

Journalism elective (3 semester hours)

Physical Education Activities (4 semester hours)

Related Areas of Study (12 semester hours)

HLTH 1102, 1202

EDPS 2111, 3121

Professional Areas of Study (38 semester hours)

RECR 2105, 3105, 3205, 3305, 3405, 3605, 3705, 4105, 4405, 4505, 4605 (9 sem. hrs.)

Electives (21 semester hours) to be selected by student and advisor to strengthen special interest areas as follows: Public Recreation and Parks, Outdoor Recreation, Therapeutic Recreation and Youth Organization.

DEPARTMENT OF HOME ECONOMICS. A co-operative relationship exists between Memphis State University and the Merrill-Palmer Institute of Detroit, Michigan, whereby a second-semester junior or first-semester senior majoring in Home Economics-Child Development may enroll for one semester of study at Merrill-Palmer with the semester hours earned being transferred toward graduation at Memphis State.

A cooperative relationship also exists with the Fashion Institute of Technology in New York City, whereby merchandising majors may enroll for one semester of study in New York with the semester hours earned being transferred toward graduation at Memphis State University.

Majors in Home Economics are offered in the areas of Child Development, Dietetics, Food Administration, Merchandising, Vocational Home Economics.

CHILD DEVELOPMENT (80 semester hours)

Home Economics Core Requirements: Home Economics 1100, 1101, 2101, 2202, 3405, 4100, 4103

Special Requirements for Child Development Area: HMEC 4101, 4201, 4301, 4401, 4402

Other Requirements: ART 3411; PSYC 1101, 1102, 3103, 3302; EDFD 2011; EDPS 2111, 3121; ELED 2211, 4212, 4811; and 12 hours of electives in Home Economics

For those students wishing to complete the requirements for K-3 certification along with the Child Development major:

1. Delete the requirement of PSYC 3302
2. Reduce the Home Economics electives required from 12 to 9 hours
3. Complete the requirements for the Early Childhood Education major program.

(NOTE: These requirements are in addition to University requirements and required courses of The College of Education.)

DIETETICS (53 semester hours)

Home Economics Core Requirements: HMEC 1100, 1101, 2101, 2202, 3405, 4100, 4103

Special Requirements for Dietetics: HMEC 2102, 3302, 3602, 4102, 4203, 4402, 4502, and 6 hours of electives in Home Economics

Other Requirements: CHEM 1111, 1112, 3311, 3312, 4511; BIOL 1632 and 3500; ACCT 2010 and 2020; MGMT 4210; EDPS 3121.

(NOTE: These requirements are in addition to University requirements and required courses of The College of Education.)

MERCHANDISING (Concentrations in Fashion Merchandising and Home Furnishing Merchandising)

NOTE: All major subject matter courses must be completed before the professional semester.

Home Economics Core Requirements: (17 hrs.) HMEC 1100, 1101, 2101, 2202, 3405, 4100, 4103

Special Requirements for Major:

For **Fashion Merchandising:** (30 hrs.) HMEC 1104, 1105, 2205, 3305, 3700, 3705, 4104, 4705

For **Home Furnishing Merchandising:** (36 hrs.) HMEC 1104, 3104, 3305, 3700, 3704, 4104, 4203, 4204, 4604, 4804

Business Administration Requirements: (24 hrs.) ECON 2110, 2120; 6 of the following courses: MGMT 3110, ACCT 2010, 2020, MKTG 3010, 3140, 3320, 3410

FOOD ADMINISTRATION (71 semester hours)

Home Economics Core Requirements: HMEC 1100, 1101, 2101, 2202, 3405, 4100, 4103

Special Requirements for Food Administration: HMEC 2102, 3302, 3602, 3702, 3802, 3902, 4402, 4502.

Other Requirements: ACCT 2010 and 2020; ECON 2110 and 2120; MGMT 3110, 3710, 4210, 4420; MKTG 3010, 3410, 4220

VOCATIONAL HOME ECONOMICS

Major Endorsement (41 semester hours)

HMEC 1100, 1101, 1104, 1105, 2101, 2102, 2202, 3305, 3405, 4100, 4103, 4104, 4203, electives (6 semester hours)

The following optional certification areas require the completion of the Major Endorsement in Vocational Home Economics in addition to the courses specified in the desired area(s). *Prerequisite:* All occupational major subject matter courses must be completed prior to internship.

a. Occupational Child Care Services (additional 21 semester hours). HMEC 3393, 4101, 4301, 4401. ELED 3212, 3412, 4411.

b. Occupational Food Services (additional 21 semester hours). HMEC 3393, 3602, 3702, 3802, 3902, 4402, 4502.

c. Occupational Clothing Services (additional 21 semester hours). HMEC 2205, 3305, 3393, 3505, 4305, 4315.

NOTE: These requirements are in addition to University requirements and required courses of The College of Education.)

DEPARTMENT OF LIBRARY SERVICE.

The Department of Library Service offers no major in Library Service. For certification in Library Service, a student must complete requirements for endorsement in Elementary Education or a major endorsement in Secondary Education, in addition to completing Library Service 4111, 4121, 4131, 4232, 4331, 4401; Education 4301.

For non-certification, a student whose major is in another college of the University will meet requirements for a minor in library service by completing the courses listed above.

DIVISION OF MUSIC EDUCATION

Studies of the Division of Music Education qualify students for teaching music in the public schools. Two degree plans are offered: the Bachelor of

Music Education with a concentration area in (1) School Music, (2) Instrumental Music or (3) General Music, or the Bachelor of Science in Education with endorsement in (1) School Music or (2) Instrumental Music.

BACHELOR OF MUSIC EDUCATION:

THE MAJOR IN MUSIC EDUCATION

The major requires the completion of (1) a group of basic music courses and (2) a group of courses in one of three concentration areas:

1. Basic Music (46 semester hours)

MUTC 1004, 1005, 1006, 3001, 3002, 3003 (22)

MUHL 3301, 3302 (6)

MUSE 1101, 1104, 1109, 1110, 3701, 4203 (11)

Music ensembles: one large ensemble for every semester of residence except for the semester of student teaching (7 semester hours). For details see p. 128.

Music 0001: each semester of residence except for the semester of student teaching, or for each semester of individual lessons in applied music (no credit). For details see page 127.

2. The Concentration Areas:

a. School Music (vocal emphasis)—(22 semester hours)

MUSE 4202, 4701 (4)

Class or Individual instruction in voice or piano (4)

Individual lessons in major areas including at least four semester hours of upper division credit (14)

Recital: MUAP 4318 for piano major or MUAP 4618 for voice major (nc)

b. Instrumental Music—(24 semester hours)

MUSE 1103, 4204 (4)

Class or Individual instruction in piano (4)

Class or Individual instruction in voice (2)

Individual lessons in major area including at least four semester hours of upper division credit (14)

Junior recital: brass, percussion, strings, or woodwind

c. *General Music—(24 semester hours)

Lower Division instruction in brass, percussion, strings, or woodwinds (4)

MUAP 1311 (4)

MUAP 1611 (4)

Upper Division instruction in brass, percussion, piano, strings, voice or woodwinds (4)

MUAP 1103, 4202, 4204, 4701 (8)

A graduation recital is not required.

*This area (General Music) is not presently an approved certification area by the State of Tennessee. For School Music endorsement, four (4) additional semester hours of individual lessons in voice or piano are required. For Instrumental Music endorsement, a total of six (6) semester hours of individual lessons on one band or orchestral instrument of major emphasis are required.

DEPARTMENT OF SPECIAL EDUCATION AND REHABILITATION

NOTE: Effective September 1, 1980, certification in Educable Mentally Retarded will be discontinued. The following programs lead toward certification in Special Education (grades K-12). The Department of Special Education and Rehabilitation offers a major and a minor in special education and a major in rehabilitation education.

Honors Program: See page 140.

SPECIAL EDUCATION

Major Endorsement (42 semester hours)

Special Education and Rehabilitation 2000, 3003, 3013, 3014, 3201, 3401, 3501, 3516,

3901, 4002, 4013, Art 3411 or Technology 4375, Mathematics 1182, Physical Education 3303 or 3806.

*Minor Endorsement (33 semester hours)

Special Education and Rehabilitation 2000, 3003, 3013, 3014, 3201, 3401, 3501, 3516, 3901, 4002, 4013.

*Minor Endorsement can be taken only when combined with a major endorsement area which is certifiable by the State of Tennessee.

THE MAJOR IN REHABILITATION EDUCATION

1. Rehabilitation Core:

SPER 3901, 3911, 3912, 4902, 4903, 4941 (6 semester hours)

SWRK 3902, 3903, 3904

PSYC 3101

DTED 3010

SOCI Twelve semester hours from the following: 4631 or 3841, 3831, 4420 or 3422, 3501, 3521 or 4522, 4851, 4852.

2. Concentration Areas:

a. Rehabilitation Education (36 semester hours):

SPER 2000, 3002, 3003, 3201, 3401, 3501, 4904 or 3012, 4905 or 3014

GUID 4621

EDPS 2111, 3121, 4112

b. Rehabilitation of the Public Offender (36 semester hours):

SPER 3201, 3401, 3501, 4904 or 3012, 4905 or 3014

PSYC 3102

18 semester hours of work in the fields of Criminal Justice, Guidance, Psychology or Sociology selected in consultation with advisor.

c. Vocational Evaluation (33 semester hours):

SPER 3002, 3501, 4904 or 3012, 4905 or 3014, 4913, 4914, 4915, 4916

PSYC 3102, 3301

SOCI 4842

The Herff College of Engineering

ROGER EMERSON NOLTE, B.S., M.S.,
Ph.D., P.E., *Dean*

Room 201-D Engineering Building

PURPOSES

The College's function is to serve the educational and research needs of the industrial community, the metropolitan area, the state, and the nation. It accomplishes this function by providing: (1) undergraduate professional education in the principal fields of engineering (2) undergraduate instruction for majors and minors in geology (3) undergraduate education in both technical and educational technology (4) graduate education in all areas (5) a program of continuing education for the engineering and technological practitioners of the area (6) assistance in the solution of industrial problems through utilization of physical facilities and the professional talents of faculty and students (7) a forum for the interchange of ideas and experiences among members of the industrial community through conferences, institutes and short courses and (8) an increase in the accumulation of knowledge in special fields of interest by a continuing program of study and research.

ORGANIZATION

The Herff College of Engineering is organized into Departments of Civil Engineering, Electrical Engineering, Geology, Mechanical Engineering, and the Division of Engineering Technology. Each offers a choice of specialized four-year programs leading to Bachelor of Science degrees and graduate programs.

The Institute for Engineering Research was founded in 1970 to promote the participation of students and faculty in research and service activities. Many interesting projects, of local and regional importance, are being actively pursued.

FACILITIES

The 4.3 million-dollar three-building engineering complex was occupied in 1970-71. It affords 161,110 square feet of space for offices, classrooms, and a variety of specialized laboratories equipped with 1.7 million dollars worth of modern furnishings. The engineering administration building houses the 3-story engineering library, administrative offices, auditorium study lounges, and a hands-on computer terminal. The engineering laboratory building has

classrooms, offices, and labs for the Engineering and Geology departments. The engineering technology building on the south houses the entire operation of the Division of Engineering Technology.

ADMISSION OF FRESHMEN AND TRANSFER STUDENTS

Requirements for admission to The Herff College of Engineering for freshmen and transfer students are those for the University as a whole (described on page 20).

High school students, in planning for careers in one of the fields of engineering, should take advantage of preparatory courses. Since engineering is the application of mathematics and physical sciences to imaginative and useful systems, those courses should be emphasized in high school preparation. Courses are available at the University for those not fully prepared. Early enrollment in the summer terms offers excellent opportunity to remove any deficiencies that may exist.

Freshman students (up to 40 semester hours credit) who choose to study in the Herff College of Engineering will be advised by an Engineering College counselor. Because of one common core for Engineering majors and another for Engineering Technology majors, internal changes of a student's major may be made efficiently through the sophomore year.

ACADEMIC PROGRAMS

Pre-Med Engineering

The Herff College of Engineering at Memphis State University has started a new option for students enrolled in an engineering program. This option will be called "Pre-Med-Engineering". It will add another degree of flexibility to the students' options as they approach the completion of their baccalaureate degree. The program was generated in response to the students' request to qualify for entrance into the medical school in conjunction with a back-up, and highly marketable, degree in an engineering field. This idea is in concert with the changing attitudes of medical schools, who are now encouraging a variety of carefully planned

baccalaureate programs. They feel that such liberalization would improve the overall spectrum and qualifications of the medical profession in its attempt to handle the ever-increasing complexity related to society's health care problems.

The student interested in this pre-med-engineering option should take the regular first two years of the common engineering core—including both semesters of general chemistry. As the student progresses through these first two years, he should then contact the chairman of the engineering department of his choice who is authorized to substitute the courses in organic chemistry for certain technical courses normally taken in the junior and senior years. Organic Chemistry 3311 and Lab 3301 plus Organic Chemistry 3312 and Lab 3302 are the eight semester hours of organic chemistry while Biology 1200 (Botany) and Biology 1600 (Zoology) are the courses recommended by the U. T. Medical Units admissions office and Memphis State's biology department. These courses should be taken by the student as a junior so as to assist him in taking the medical entrance examinations, probably during the senior year. Depending upon the student's schedule, time required for the undergraduate engineering degree, etc., the pre-med-engineering student may take additional biology courses, such as Physiology 3730 or Comparative Anatomy 3620. Also courses in biochemistry are appropriate, but not required.

Degrees Offered

The Herff College of Engineering comprises four Departments: Civil Engineering, Electrical Engineering, Geology, Mechanical Engineering, and the Division of Engineering Technology.

All have four-year programs leading to the following degrees: Bachelor of Science in Civil Engineering*, Bachelor of Science in Electrical Engineering*, Bachelor of Science in Mechanical Engineering*, Bachelor of Science in Geology, Bachelor of Science in Engineering Technology*, and Bachelor of Science in Technology.

A five-year program leading to the Master of Science degree is recom-

mended for those students who demonstrate high scholastic abilities. For more information about graduate pro-

grams, refer to the Graduate School *Bulletin*.

The following outline lists the major

and areas of concentration for each department in the Herff College of Engineering.

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Civil Engineering	Civil Engineering*	(1) Environmental Engineering (2) Foundation Engineering (3) Structural Engineering (4) Transportation Engineering	Bachelor of Science in Civil Engineering
Electrical Engineering	Electrical Engineering*	(1) Solid State Electronics (2) Energy Conversion (3) Control Systems (4) Computer Science (5) Microwave Antenna Systems	Bachelor of Science in Electrical Engineering
Geology	Geology		Bachelor of Science in Geology
Mechanical Engineering	Mechanical Engineering*	(1) Design and Manufacturing (2) Energy Systems (3) Fluid Power Systems (4) Mechanical Systems	Bachelor of Science in Mechanical Engineering
Engineering Technology	Architectural Technology*		Bachelor of Science in Engineering Technology
	Construction Technology*		Bachelor of Science in Engineering Technology
	Computer Systems Technology*		Bachelor of Science in Engineering Technology
	Electronics Technology*		Bachelor of Science in Engineering Technology
	Manufacturing Technology*	(1) Drafting and Design (2) Forest Products (3) Industrial Safety (4) Production Management (5) Supervision	Bachelor of Science in Engineering Technology
	Industrial Arts		Bachelor of Science in Technology

*Note: The following programs are accredited by the Engineer's Council for Professional Development, Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Systems Technology, Construction Technology, Drafting and Design Technology, Electronics Technology, and Manufacturing Technology.

*Note: Accredited by the Engineer's Council for Professional Development.

Degree Requirements

The required curriculum, including elective specialties in each of the various programs, is described in detail in the following pages. General requirements include a minimum of 132 credit hours of approved coursework with a minimum quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1).

ENGINEERING CORE

The following semester groupings represent the freshman and sophomore years which are common to civil, electrical, and mechanical engineering curricula.

FRESHMAN YEAR

ENGL 1101	ENGL 1102
English Comp 3	English Comp 3
MATH 1321	MATH 2321
Anal Geom & Cal 4	Anal Geom & Cal 4
ENGR 1001	PHYS 2511
Intro to Engr 1	Phys-Sci & Engr 4

ENGR 1011	Natural Science
Engr Compt Prog 2	(See Note 1) 4
ENGR 1021	
Engr Graphics 2	
CHEM 1111	
Gen Chemistry 4	
PHED 1 ---	PHED 1 ---
Phys Activity†	Phys Activity†
or	or
ROTC 1111	ROTC 1112
Aerospace (1)	Aerospace (1)
17	16

SOPHOMORE YEAR

ENGL 21 -- *	ENGL 21 -- *
MATH 2322	MATH 3391
Anal Geom & Cal 4	Diff Equations 3
PHYS 2512	ELEC 2201, 2203
Phys-Sci & Engr 4	Circuit Analysis 4
CIVL 2131	MECH 2332
Statics 3	Dynamics 3
ECON 2110	H & S Elective
Economics I 3	(See Note 2) 3
ROTC 2211	ROTC 2212
Aerospace (1)	Aerospace (1)
or	or
PHED†	PHED†
18	17

*See page 46 for options.

†A minimum total of 4 semester credit hours of PHED and/or ROTC is required.

NOTE 1: To be selected from Chemistry 1112, Geology 1101, or Biology 1200, 1600, 1731. (Mechanical Engineers should take Chemistry 1112.)

NOTE 2: See Note 2 on page 83.

CIVIL ENGINEERING

The civil engineering program is built upon a foundation of mathematics, physical sciences, and mechanics with supporting courses in the humanities and social studies. The curriculum affords a detailed study of the fundamental principles which comprise the professional practice of civil engineering. Graduates are prepared to assume technical or administrative positions in the areas of planning, design, construction, and maintenance of all types of public and private civil engineering projects.

Areas of specialization include sanitary engineering; structural analysis and design; soil mechanics and foundation engineering; transportation en-

gineering, and water resource engineering.

The Major: 43 semester hours in Civil Engineering courses including Civil Engineering 2131, 3101, 3111, 3121, 3122, 3131, 3141, 4135, 4141, 4151, 4161 and 9 hours of Civil Engineering elective courses. A student may select courses from the following concentrations to satisfy the required 9 semester hours of Civil Engineering electives and the 3 semester hours of Technical electives required for a Bachelor of Science Degree.

a. Environmental Engineering: CIVL 4142, 4145, 4147, 4152, 4191

b. Foundation Engineering: CIVL 3135, 4152, 4191

c. Structural Engineering: CIVL 3135, 4131, 4136, 4152, 4191

d. Transportation Engineering: CIVL 3135, 3136, 4152, 4162, 4164, 4191

To qualify for the degree of Bachelor of Science in Civil Engineering a student must complete the curriculum outlined below. (For the freshman and sophomore years, see the common engineering requirements previously listed.)

JUNIOR YEAR

CIVL 3101		CIVL 3111	
Comp. Meth. in C.E.	3	Field Measur.	3
CIVL 3121		CIVL 3122	
Struct. Analysis I	3	Struct. Analysis	3
MECH 3322		CIVL 3131	
Mech. of Matl.	4	Des. of Steel Struc.	3
MECH 3311		MECH 3361	
Engr. Thermo.	3	Matl. Science	4
MECH 3331		H & S Elective	
Mech. of Fluids	4	(See Note 2)	3
	17		16

SENIOR YEAR

CIVL 4141		CIVL 3141	
Hyd. & Wat. Sup.	3	Engr. Economics	3
CIVL 4151		CIVL 4135	
Soil Mechanics	4	Reinforced Concrete Design	3
CIVL 4161		Civil Engr. Elec.	
Trans. Sys. Engr.	3	(See Note 4)	6
Civil Engr. Elec.		Technical Elective	
(See Note 4)	3	(See Note 3)	3
H & S Elective			
(See Note 2)	3		
	16		15

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in Engineering, Mathematics, Physics, adviser's approval required.

NOTE 4: Upper division course in Civil Engineering—Adviser's approval required.

ELECTRICAL ENGINEERING

Students enrolled in electrical engineering are offered a modern, well-balanced curriculum which is designed to provide a thorough background and understanding of the theoretical and physical principles of electric and magnetic phenomena. The concepts and techniques of mathematics and physics

are applied in a wide variety of studies designed to guide the student into a career which will enable him to contribute to the design, construction, and utilization of products which are beneficial to man. At the same time the curriculum provides adequate flexibility for the student to specialize in one of the many diverse and exciting areas of space age technology.

Laboratory facilities are available for a wide variety of instructional and research activities. These facilities are located in a new engineering building which provides the latest advances in equipment and facilities.

Graduates of this program may qualify for positions in development and design, research, sales, management, manufacturing, and construction. Some of the technical areas of opportunity lie in the design, development and use of analog and digital computers, communications systems, power generation and distribution systems, microwave and antenna systems, automatic control systems, and general instrumentation. An undergraduate student, with the approval of the department chairman, may also elect to take special technical and H & S electives which satisfy the course entrance requirements for medical school.

The Department of Electrical Engineering offers a Master of Science degree for those electrical engineers who desire advanced study in the areas of hybrid computers, microwave and antenna systems, communications systems, solid state electronics and automatic control systems.

The Major: 43 semester hours of Electrical Engineering courses including Electrical Engineering 2201, 2203, 3201, 3202, 3211, 3212, 3213, 3221, 4201, 4203, 4211, 4212 and 4231. The remaining 10 semester hours of Electrical Engineering courses may be elected from one of the following areas of concentration. The program also includes 7 semester hours of technical electives which students may utilize to broaden their base of knowledge.

a. Solid State Electronics: ELEC 3222, 4221, 4222, 4240 and 4241.

b. Energy Conversion: ELEC 3222, 4202, and 4205.

c. Control Systems: ELEC 3220, 4215, 4216, 4251 and 4261.

d. Computer Science: ELEC 3220, 4215, 4222, 4230, 4232, 4270 and 5205

e. Microwave and Antenna Systems: ELEC 4213, 4230 and 4232.

Note: Projects I or II, ELEC 4991 or 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

The minimum requirements for the degree of Bachelor of Science in Electrical Engineering are (for the freshman and sophomore years, see the common engineering requirements previously listed):

JUNIOR YEAR

ELEC 3201		ELEC 3202	
Circuit Analysis II	4	Transform Meth.	3
ELEC 3211, 3213		ELEC 3212	
Electronics I	4	Electronics II	4
MECH 3311		ELEC 3221	
Engr Thermo.	3	Matrix Comput.	3
Technical Elec.		ELEC 4211	
(See Note 3)	6	EM Field Theory I	3
		H & S Elective	
		(See Note 2)	3
	17		16

SENIOR YEAR

ELEC 4201, 4203		ELEC 4231	
Energy Conv. I	4	Commun. Theory	3
ELEC 4212		Elec. Engr Elective	
EM Field Theory II	4	(See Note 4)	6
Elec. Engr Elective		Technical Elective	
(See Note 4)	4	(See Note 3)	4
H & S Elective		H & S Elective	
(See Note 2)	3	(See Note 2)	3
	15		16

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in Engineering, Mathematics, Physics, adviser's approval required.

NOTE 4: Upper division courses in Electrical Engineering, such as: ELEC 4202, Electrical Power Systems; ELEC 4205, Analog Simulation Techniques; ELEC 4213, Antenna Theory and Design; ELEC 4221, Pulse and Digital Circuits; ELEC 4222, Logical Design and Switching Circuits; ELEC 4240, Quantum Electronics; ELEC 4241, Physical Electronics; ELEC 4251, Control System Engineering; ELEC 4261, Network Synthesis; ELEC 4991-4992, Elec. Engr. Projects; ELEC 5205, Hybrid Simulation Techniques.

MECHANICAL ENGINEERING

Mechanical engineering is a broad field and consequently students are offered a balanced curriculum designed to provide a strong foundation in mathematics, physical sciences and the engineering sciences. Moreover, they study humanities and social sciences to understand more fully the engineer's relationship and responsibilities to society. Finally, mechanical engineers cultivate, through advanced courses in engineering design and synthesis, the ability to apply this knowledge to the analysis and solution of significant engineering problems.

Because of the diverse nature of his work, the mechanical engineer must have a basic knowledge of chemistry, physics, mathematics and the classical disciplines of mechanical engineering; thermo sciences, mechanical sciences, materials sciences and modern techniques of engineering analysis, design and optimization. His diverse background uniquely equips the mechanical engineer to work on a variety of challenging problems involving transportation systems, including land and marine vehicles, aircraft and spacecraft,

air conditioning systems, nuclear reactors and fuel cells, low pollution devices and a host of other devices.

The mechanical engineering curriculum provides for an element of specialization by way of preference programs in design and manufacturing, energy systems, mechanical systems, and fluid power systems.

As part of the requirements for a degree of Bachelor of Science in Mechanical Engineering a student may choose one of the following concentration areas:

a. Design and Manufacturing:

MECH 4361 Metallurgy
MECH 4381 Manufacturing Operations I
MECH 4382 Manufacturing Operations II

3 semester hours Engineering or Math Elective

b. Energy Systems (4 of the following courses):

MECH 4313 Heat Transfer II
MECH 4315 Ventilation and Air Conditioning
MECH 4316 Energy Conservation and Management

MECH 4317 Fundamentals of Solar Engineering

MECH 4351 Nuclear Engineering

c. Mechanical Systems:

MECH 4325 Advanced Mechanics of Materials

MECH 4334 Engineering Acoustics and Noise Control

MECH 4371 Mechanical Vibrations

3 semester hours Engineering or Math Elective

d. Fluid Power Systems:

MECH 4309 Gas Dynamics

MECH 4310 Fluid Power I

MECH 4331 Turbomachinery

MECH 4333 Fluid Power II

To qualify for the degree of Bachelor of Science in Mechanical Engineering the student must satisfy general University requirements and complete the following curriculum (for the freshman and sophomore years, see the common engineering requirements previously listed.)

JUNIOR YEAR

MECH 3311		ELEC 3211	
Engr Thermo I	3	Electronics I	3
MECH 3331		MECH 3312	
Mechanics of		Engr Thermo II	3
Fluids	4	MECH 3323	
MECH 3321		Mech Design	
Dyn. & Control		Anal I	3
of Machines	3	MECH 3361	
MECH 3322		Mat'l's Science	4
Mech of Materials	4	MECH 3341	
CIVL 3141		M.E. Analysis	3
Engr Economics	3		
	17		16

SENIOR YEAR

MECH 4311		ELEC 4201 or	
Heat Transfer I	3	MECH 4312	
MECH 4322		Energy Convr/	
Mech Design		Power Gen	3
Anal II	2	MECH 4323	
MECH 4344		Mech Design	
Dyn. & Control of		Anal III	2
Machines II	3	MECH ENGR ELEC	3
MECH ENGR ELEC	3	(See Note 4)	
(See Note 4)		TECHNICAL ELEC	3
TECHNICAL ELEC	3	(See Note 3)	
(See Note 3)		H & S ELEC	3
H & S ELEC	3	(See Note 2)	
(See Note 2)			
	17		14

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in Engineering, Mathematics, Physics, etc., in support of concentration area. Adviser's approval required.

NOTE 4: A 6 semester hour concentration of upper division Mechanical Engineering courses to gain depth in such areas as Energy Systems, Fluid Power Systems, Mechanical Systems, and Design and Manufacturing, is required.

GEOLOGY

The undergraduate degree offered by the Department of Geology is the Bachelor of Science in Geology. This major allows the student flexibility in that he can select a broad background in Geology, or he can select an area for emphasis which can be continued at the graduate level. In addition to the University requirements (see page 46), detailed requirements are:

The Major: 36 semester hours in geology courses, including Geology 1101, 1201, 2311, 2312, 3211, 3512, 3712, 4622, and additional semester hours from the upper division as approved by the adviser.

Chemistry 1111 and 1112

Mathematics 1321

Physics 2511, 2512 or 2111, 2112

Non-technical electives: 30 hours which include:

(a) Social Sciences: courses offered by the department of sociology and anthropology, economics, geography (other than physical), history, political science and psychology.

(b) Humanities: courses offered by the department of art, English, foreign languages, music, philosophy, and speech and drama.

These non-technical electives must include:

(1) twelve semester hours in the Humanities, including at least six semester hours in one foreign language.

(2) six semester hours in the social sciences and

(3) twelve semester hours in any combination of upper division work in any of the fields (1) or (2).

Electives to bring the total to 132 hours.

Electives are to be chosen only with the consent of the adviser.

The Minor: 18 semester hours in geology courses, including Geology 1201, and 10 additional hours.

DIVISION OF ENGINEERING TECHNOLOGY

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities. The Division of Engineering Technology offers six majors leading to the degree, Bachelor of Science in Engineering Technology. These areas are Architectural Technology, Computer Systems Technology, Construction Technology, Electronics Technology, and Manufacturing

Technology. The Manufacturing Technology program can be completed as outlined on the following pages but also can be completed with an emphasis on Forest Products Technology or Industrial Safety upon consent of an adviser. The Division of Engineering Technology also offers a major in Industrial Arts leading to a Bachelor of Science in Technology degree. A complete outline of the Industrial Arts major can be found on page 86.

ENGINEERING TECHNOLOGY CORE

FRESHMAN YEAR

ENGL 1101		ENGL 1102	
Engl. Comp.	3	Engl. Comp.	3
MATH 1213		MATH 1321	
Alg. & Trig.	3	Anal Geom & Cal	4
TECH 1411		TECH 1811	
Intro to Tech	1	Elect Tech I	3
TECH 1511		TECH 2555	
Graphics I	3	Arch Design I	4
TECH 1611		ENGR 1011	
Wood Indust.	3	Engr. Comp.	
TECH 1711		Prog.	(2)
Mach Prod Tech	3	or	
†ROTC		TECH 1010	
Aerospace	(1)	Intro to	
or		Comp Usage	2
†PHED		†ROTC	
Phys. Activity	1	Aerospace	(1)
		or	
		†PHED	
		Phys Activity	1
	17		17

SOPHOMORE YEAR

ENGL 21....		ENGL 21....	
(See page 46)	3	(See page 46)	3
PHYS 2111		PHYS 2112	
Gen Phys	4	Gen Phys	4
TECH 2944		CHEM 1051	
Anal for		Gen. Chem.	4
Engr Tech	4	TECH 2411	
TECH 1451		Instrumentation	3
Intro to Survey	3	(See Note 3)	
(See Note 1)		TECH 2511	
SPCH 1311		Desc. Geom.	3
Public Spch	3	(See Note 4)	
(See Note 2)		†ROTC	
†ROTC		Aerospace	(1)
Aerospace	(1)	or	
or		†PHED	
†PHED		Phys Activity	1
Phys Activity	1		
	18		18

†A minimum total of 4 sem. hrs. of P.E. and/or ROTC is required for graduation.

NOTE 1: Electronics majors take TECH 1821.

NOTE 2: Electronics majors take TECH 2821, Computer Systems majors take TECH 2251.

NOTE 3: Electronics majors take SPCH 1311, Architecture majors take TECH 1555, Construction majors take TECH 2431.

NOTE 4: Electronics majors take TECH 2831, Construction majors take TECH 2451 or TECH 3591, Forest Products students take TECH 2611, Computer Systems majors take ELEC 3220.

ARCHITECTURAL TECHNOLOGY

Architectural Technology is that branch of Engineering Technology that concerns itself with those phases of

architectural and engineering design as related to buildings. The purpose of the program is to teach the student design principles and drafting techniques that will enable him to perform tasks that are now required of the architect and the engineer. The course offerings are engineering oriented with emphasis on architectural practices and principles. Each student has the option of selecting a support area consisting of approximately twenty-one (21) semester hours of study in areas such as business law, real estate, city planning, or others.

JUNIOR YEAR

HIST 2601		HIST 2602	
U.S. History	3	U.S. History	3
TECH 3400		TECH 3521	
Forces &		Arch Models	3
Forces Systems	3	TECH 3532	
TECH 3531		Mech Equip II	3
Mech Equip I	3	TECH 3401	
TECH 2556		Strength	3
Sight & Environ.		TECH 4525	
Planning	3	Bldg. Codes	
TECH 2431		& Regs	3
Tech. Writ.	3	TECH 2561	
TECH 3491		Bldg. & Const.	
Estimating	3	Systems	3
	18		18

SENIOR YEAR

TECH 3471		TECH 4520	
Structural Design	3	Const Meth &	
TECH 3520		Equip	3
Arch Design II	4	TECH 4515	
TECH 3411		Arch Design II	4
Ind. Materials	3	TECH 4944	
TECH 4530		Prob in Tech	3
Arch Specs &		TECH 3472	
Contracts	3	Struc Design II	3
Elective (Tech)	3	Elective (Genl)	3
	16		16

COMPUTER SYSTEMS TECHNOLOGY

This area of study is designed to prepare the student for positions that require a knowledge of programming and the application of computers in various industries. Electives may be selected to provide a strong background in one or more areas of study.

JUNIOR YEAR

HIST 2601		HIST 2602	
U.S. History	3	U.S. History	3
Elective (General)	3	Elective (General)	3
TECH 4462		TECH 3422	
Insp & Qual		Metal Mfg. Proc	3
Contr	3	TECH 3271	
TECH 2431		Comp Sim Tech	4
Tech Report		Electronics Elective	3
Writing	3		
TECH 3251			
Data Structures	4		
	16		16

SENIOR YEAR

SPCH 1311		TECH 4381	
Pub Speaking	3	Prin of Supvr	3
Elective (General)	3	TECH 4271	
Technical Elective	3	Comp Tech	4

TECH 4251		TECH 4834	
Assem Lang	4	Dig Sys in Tech	3
TECH 4831		TECH 4944	
Comp Tech I	3	Prob in Tech	3
		Elective (General)	3
	16		16

CONSTRUCTION TECHNOLOGY

This four-year program is for students who are interested in preparing for professional careers in construction management, techniques, operations and different areas of the construction industry. As one of the biggest industries in the world, construction has dire need for many young men and women trained for the construction industry or related fields.

JUNIOR YEAR

HIST 2601		HIST 2602	
U.S. History	3	U.S. History	3
TECH 3400		FIR 3310	
Forces & Sys	3	Real Estate	3
TECH 3411		TECH 3401	
Ind Materials	3	Strength	3
TECH 3387		TECH 3532	
Const Safety	3	Mech Equip II	3
TECH 3531		Elective (General)	6
Mech Equip I	3		
TECH 3491			
Estimating	3		
	18		18

SENIOR YEAR

TECH 3412		TECH 3472	
Soil Tech	3	Struc Design II	3
TECH 3414		TECH 4520	
Const Adm	3	Const Meth	3
TECH 3471		TECH 4510	
Struc Design I	3	Const Plan	
Elective (Technical)	3	& Sch	3
TECH 3440		MGMT 4420	
Proj Cost Eval	3	Human Rel in Bus	3
		Elective (Technical)	3
	15		15

ELECTRONICS TECHNOLOGY

For the student especially interested in the practical application of electronics theory. Provides both theory and techniques related to communications, instrumentation, and computer systems. "Hands on equipment" approach is emphasized, employing most modern equipment found in industry. Specific requirements for this area are:

JUNIOR YEAR

HIST 2601		HIST 2602	
U.S. History	3	U.S. History	3
TECH 3440		TECH 2411	
Proj Cost Eval	3	Intro to Instr	3
TECH 1451		Tech Elective	3
Intro to Survey	3	(Note 1)	
TECH 3811		TECH 3411	
Elect Commun	3	Indus Materials	3
TECH 3821		TECH 2431	
Indus Elect	3	Tech Report	
TECH 4831		Writing	3
Comp Tech I	3	Elective (General)	3
	18		18

SENIOR YEAR

Elective (Tech)	3	TECH 4381	
(Note 1)		Prin of Superv	3
Elective (Tech)	9	TECH (Note 1)	
(Note 2)		Elective	3
Elective (General)	6	TECH (Note 2)	
		Elective	9
	18		15

NOTE 1: Students will select from one of the following three-course options: TECH 3822, 3841, 4851 or TECH 4801, 4821, 4841 or TECH 4832, 4833, 4834.

NOTE 2: Students will select Technology Electives from the following: TECH 2251, 3386, 3822, 3841, 3861, 3862, 4460, 4462, 4470, 4801, 4821, 4832, 4834, 4841, 4861; or other upper-division electives may be taken with Adviser's concurrence.

MANUFACTURING TECHNOLOGY

This area of study is designed for students interested in directing men, materials, and machines to efficient production in a manufacturing establishment. The five areas of concentration provided under the Manufacturing Technology program are: Production Management, Forest Products, Industrial Safety, Drafting and Design, and Supervision. Areas of opportunity for a student having a background in Manufacturing Technology include production management and supervision or positions in specialized staff groups such as Industrial Engineering, Manufacturing Engineering, Quality Assurance, Process Engineering, or Safety Engineering. The program can be completed as outlined below, but can also be completed with an emphasis on Forest Products Technology, Industrial Safety, Drafting and Design, Production Management, or Supervision upon consent of adviser.

JUNIOR YEAR

HIST 2601		HIST 2602	
U.S. History	3	U.S. History	3
TECH 2431		Elect (Technical)*	3
Tech Report		TECH 3386	
Writing	3	Indus Safety	3
Elective (Technical)*	3	TECH 3421	
TECH 3400		Mfg. Proc	3
Forces &		Elect (Technical)*	3
Force Systems	3	TECH 4460	
TECH 3440		Motion & Time	
Proj Cost Eval	3	Analysis	3
TECH 3411			
Indus Material	3		
	18		18

SENIOR YEAR

TECH 4462		TECH 4381	
Insp & Qual Cont	3	Prin of Superv	3
TECH 4464		TECH 4466	
Prod Control	3	Plant Layout	3
Elect (Technical)*	3	Elect (Technical)*	3
Elect (Technical)*	3	Elect (Technical)*	3
Elect (Technical)*	3	Elect (General)	3
	15		15

*Supervision Concentration take TECH 3401, 4468, 4470, 4944; MGMT 3110, 3710, 4220, 4420 or PSYC 3301.

*Production Management concentration take TECH 3718, 3350, 3401, 3410, 3505, 3422, 4591, 4571, 4468, 4944.

*Drafting and Design concentration take TECH 2512, 3401, 3471, 3505, 3572, 3573, 4571, 4591, 4944.

*Industrial Safety concentration take BIOL 1631; TECH 3387, 3921, 3931, 4470, 4951, 4952, 4961.

*Forest Products concentration take TECH 2651, 3611, 3601, 3631, 3931, 4944, 4661; MGMT 3110.

INDUSTRIAL ARTS

This major is designed for students planning a teaching career in Industrial Arts, with the emphasis on the secondary school program. Specific requirements for this area are as follows:

FRESHMAN YEAR

ENGL 1101		ENGL 1102	
Engl. Comp.	3	Engl. Comp.	3
TECH 1411		TECH 2911	
Intro to Tech.	1	Foun Ind Arts Ed	3
TECH 1511		TECH 2555	
Graphics I	3	Arch. Design I	4
PSYC 1101		HLTH 1102	
Gen. Psyc.	3	Personal Hlth.	3
MATH 1213		CHEM 1051	
Alg. & Trig.	3	Gen. Chemistry	4
Elective	2	†PHED	
†PHED		or	
or		†ROTC	1
†ROTC	1		
	<hr/>		<hr/>
	16		18

SOPHOMORE YEAR

ENGL Any 2000		ENGL Any other	
level course		2000 level course	
except 2601	3	except 2601	3
TECH 1711		TECH 3718	
Mach. Prod. Tech.	3	Metal Form & Fab	3
TECH 1611		TECH 3601	
Wood Industry	3	Prin of Bldg Const.	3
PHYS 1111		or	
Found. of Physics	3	TECH 3611	
SPCH 1311		Ind. Wood Proj.	
Public Speaking	3	PHYS 1112	
†PHED		Found. of Physics	3
or		EDUC 2011	
†ROTC	1	Found. of Educ.	3
		†PHED	
		or	
		†ROTC	1
	<hr/>		<hr/>
	16		16

†A minimum total of 4 semester hours of PHED and/or ROTC is required for graduation.

JUNIOR YEAR

TECH 1811		TECH 1821	
Elec Tech I	3	Elec Tech II	3
TECH 3350		or	
Fluid Power	3	TECH 3831	
TECH 3410		Ind Arts Electr	
Plastics Mater		TECH 4355	
I Proc	3	Energy &	
EDUC 2111		Pow Tech	3
Human Growth		EDUC 3384	
& Dev	3	Mtl's. & Methods—	
HIST 2601		HSIA	3
U.S. History	3	EDUC 3121	
ART 2213		Psyc of Learning	3
Ltr & Layout	3	HIST 2602	
		U.S. History	3
		ART 2221	
		Graphic Prod	3
	<hr/>		<hr/>
	18		18

SENIOR YEAR

TECH 4362		EDUC 4841	
Gen. Shop Appl.	3	Dir. Student	
TECH 4361		Teaching	9
Org.—Gen. Shop	3	EDUC 4441	
*Hum Req. Elective	3	Cur. Probs. &	
(Note 1)		Trends	3
*Soc Sci Req.		Educ Req.	
Elective (Note 2)	3	Elective	3
*Electives			
(Note 3)	3		
	<hr/>		<hr/>
	15		15

NOTE 1: One course (3 semester hours) in one of the following humanities: art, music, foreign languages, philosophy.

NOTE 2: One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography, political science, sociology.

NOTE 3: Elective must be applicable for secondary school teachers.

*Three (3) semester hours must be 3000-4000 level courses.

THE MINORS:

SAFETY:

TECH 3386, 3387, 3921, 3931, 4470, 4951, 4952, 4961.

PSYC 3301

MGMT 3110

BIOL 1631

SURVEYING:

GEOG 3501, 3511

TECH 1411, 1451, 1511, 2451, 2591, 3451

MATH 1213, 1321

TECHNOLOGY:

TECH 1411, 1511, 1711, and 15 additional semester hours in technology courses, 9 semester hours of which must be from the upper division in one of the specific technology areas.

The University College

ROBERT J. HATALA, B.S., Ph.D.,
Dean

Room G-1, Johnson Hall

PURPOSES

The University College offers non-traditional degrees for those students whose experience, talents, and interests are best served through a program which emphasizes personally designed education. Through the University College, faculty, students, and off-campus professionals have the opportunity to work together unrestricted by departmental or college boundaries. The College provides individually designed programs for persons whose career goals, academic needs and interests are not met by existing majors, but by appropriate combination of integrative interdisciplinary courses offered by the University College, existing courses offered by other colleges, credit by examination, credit for non-traditional learning, and internship experiences. For faculty across the University, the University College provides the structure to explore and develop interdisciplinary ventures that may later be subsumed into other degree-granting units. The College seeks to create and maintain a spirit of academic community through careful and concerned advising, and interaction outside the classroom between students, faculty, and staff. The Bachelor of Liberal Studies and Bachelor of Professional Studies degree programs are complementary to the University's role of meeting the academic needs of a diverse population in an urban setting.

ORGANIZATION

The University College both depends upon and contributes to existing programs at the University through creative use of existing faculty and programs to satisfy legitimate degree program needs which are not currently met. The College has no permanent or full-time faculty of its own, drawing instead on the faculty of other colleges of the University for instructors and advisors. These faculty members serve on a short-term basis while maintaining primary affiliation with their own departments. The knowledge and experience of the faculty from several disciplines enables the University College to offer truly interdisciplinary courses and a broader base for effectively advising students. At the same time, faculty serving the University College

gain new perspectives and associations which they may contribute to their own colleges.

The Faculty Council is composed of twelve faculty members from the other four colleges of the University. The Council is jointly responsible with the Dean of the University College in establishing requirements for the selection of the faculty, determining admissions, curriculum and degree requirements, and approving group contract degrees designed for students with similar program needs. In addition, the Council gives advice and counsel to the Dean. The students of the University College also serve an advisory role to the Faculty Council and the Dean.

ADMISSIONS

After an applicant has been admitted to Memphis State University through the Office of Admissions and Records, he may apply for admission to the University College in the Office of the Dean. (See Section 2 of the *Bulletin* for admission to the University.) The University College welcomes inquiries from persons who believe that their interests will be best served by a program which emphasizes personally designed education through contract degrees. Included in the University College application are a statement of the applicant's educational and career goals, and his reason for seeking to fulfill them by means of a University College program. Three letters of recommendation and a \$15.00 screening fee must be submitted, as well as descriptions of work experience, interests and activities related to career goals. A letter from the Dean of the University College assigns the applicant to a temporary advisor for a screening interview, the purpose of which is to determine if the applicant's needs are best met in the University College or elsewhere. If the temporary advisor recommends acceptance and the Dean agrees, the student receives a letter of acceptance from the Dean instructing him to confer with the temporary advisor on forming a Contract/Advising Committee, and reminding him that he must pay a \$25.00 contract/advising fee before the committee meets. The Contract/Advising Committee works with the student to develop a degree program which serves

the student's needs and meets the academic requirements of the University College and of Memphis State University. A student may transfer into University College more than the ordinary limit of extension, correspondence or armed services courses, provided they are an integral part of the degree program. A minimum of 60 semester hours of the degree program must be received from a four-year institution.

THE UNIVERSITY COLLEGE DEGREES

The Contract Degree

Students enrolling in the University College may elect either of two degree programs: the Bachelor of Liberal Studies (BLS) or the Bachelor of Professional Studies (BPS). Both of these degrees must be awarded for programs which are systematic, yet are sufficiently flexible to permit students and advisors to design individual programs of study, i.e., learning contracts.

All contracts will be reviewed and approved by the administration of the University College, but individual contracts will be designed by a Contract/Advising Committee whose responsibility is to assist the student in the development and execution of a degree program which serves the student's needs and meets the academic requirements of the University College and of Memphis State University. The chairperson of that committee must be a faculty member of Memphis State University; the remaining committee members may be appropriate student or off-campus resource persons. The committee also directs the student in the preparation of a portfolio to obtain credit for knowledge gained through experience or non-traditional instruction; see page 26 for a description of credit evaluation fees. The Baccalaureate Contract will include work in three major areas: Liberal Studies, Thematic Studies and Individualized Studies.

Liberal Studies

Liberal Studies constitute the general education component of the University College. The studies are designed to develop a capacity for effective living through emphasis on integration of the academic disciplines as well as through

analytic skills. Each Liberal Studies course is taught by a faculty team drawn from different disciplines; each course examines the values which form the basis of decisions and judgments. The Liberal Studies area is composed of six studies, plus Mathematics 1181 or another mathematics course at the same level or above. These courses total 37 semester hours and serve as a core for both degrees; they are to be completed by all BLS and BPS candidates. Although the specific content of the courses will vary from semester to semester, general course descriptions are included in the *Bulletin*; see p. 150. Although this component of the program is interdisciplinary, provision is made for transfer credit from other colleges and credit by examination. Each student will complete a minimum of one Liberal Studies course.

Thematic Studies

Thematic Studies cross departmental and disciplinary lines to examine a theme, problem, issue or epoch from several points of view. As upper-division courses, they are designed to provide ways for undergraduates to integrate the full scope of their studies more effectively than they are able to do within the traditional department structure. Thematic Studies do, however, require the special knowledge and expertise learned from and fostered by the traditional disciplines. A BLS student will complete a minimum of two Thematic Studies; a BPS student, a minimum of one. Thematic Studies courses carry 6 to 9 semester hours credit each.

Individualized Studies

Individualized Studies comprise more than half of a student's degree contract. Of the 132 semester hours minimum credit required for a degree from Mem-

phis State University, 77 hours of individualized Studies are required of a BLS student, 86 hours of a BPS student. This component of the program includes a Coordinated Study Program of at least 30 upper-division hours in at least two academic disciplines, plus a special synthesizing project (9 semester hours). Credit may be earned through courses offered by departments in the other degree-granting colleges, credit by examination, credit for experiential learning, internships or apprenticeships, independent studies, additional Thematic Studies courses, and the Special Project. For a University College student, the Coordinated Study Program corresponds to a departmental major. Students must average C or above in 30 upper-division hours of their Coordinated Study Program.

The Special Project will be designed by the Contract/Advising Committee as a synthesizing activity, interdisciplinary in nature, by which the student demonstrates in a sustained manner comprehension and command of the complex skills and understanding encompassed in the degree program. The Special Project carries 9 semester hours credit.

LIBERAL STUDIES

UNIV 1010 Communications I	(6)
UNIV 1020 Communications II	(6)
UNIV 1210 Humanities	(6)
UNIV 1410 Social Science	(6)
UNIV 1610 Natural Science	(6)
UNIV 1810 Leisure and Recreation	(4)
MATH 1181 (or another mathematics course at the same level or above)	(3)

For both BLS and BPS degrees 37 semester hours

THEMATIC STUDIES

UNIV 3500-3599 (6-9)
(See note above)

for the BPS degree	6-9 semester hours
for the BLS degree	12-18 semester hours

INDIVIDUAL STUDIES

includes:

Coordinated Study Program, upper division hours	(30)
UNIV 4996 Special Project	(9)

for the BPS degree	86 semester hours
for the BLS degree	77 semester hours

Evaluation

All members of the Contract/Advising Committee evaluate the student's performance, recognizing that each student enrolled in the University College must meet all University credit-hour and GPA requirements. The following methods are used to evaluate a student's performance: the traditional grading system, Pass/Fail and Credit/No Credit options supplemented by written narrative evaluations, credit or placement by examination, Advanced Placement examinations for degree credit where these are available, and credit for validated learning from experience or non-traditional instruction.

Residence Requirements

The usual residence requirements of Memphis State University obtain: 33 of the final 66 semester hours required for the degree must be completed at Memphis State University; see page 47.

The Department of Nursing

LOIS HOLLOMON, B.S.N., M.S.N.,
Chairman

Room 316, Manning Hall

PURPOSES

The primary purpose of the Nursing department is to prepare a person to enter the profession of Nursing. A significant characteristic of the Nursing program is that it offers a ladder type preparation for nursing practice on the Associate Degree level as well as the Baccalaureate level.

The Associate of Science degree graduate will:

1. Utilize the nursing process in providing direct nursing care to patients in a variety of settings.
2. Apply knowledge of physiological and psycho-social principles in administering patient care.
3. Utilize the established body of nursing knowledge as a basis for care to patients with common recurring problems.
4. Identify the role of the A.D. nurse as a contributing member of both the nursing team and the health care system.
5. Provide non-judgmental climate in patient care through awareness of self and others as individuals with varying physical, emotional and developmental needs.
6. Recognize the need for continued education in nursing through formal and/or informal educational experiences.
7. Supervise less skilled individuals in the technical aspects of nursing care.

The Bachelor of Science in Nursing graduate will:

1. Utilize the nursing process in providing competent nursing care for clients and significant others in a variety of health care systems.
2. Apply indepth knowledge from physical, social, biological, and nursing science to the nursing process.
3. Make independent nursing judgments based on knowledge of the problem solving process.
4. Manage patient care for individuals and groups in a variety of settings.
5. Collaborate with other health team members to provide optimal health care.

6. Utilize nursing research and contribute to the development of the body of nursing knowledge.
7. Accept responsibility for personal and professional growth as a citizen and professional nurse.
8. Assume positions of leadership in the Nursing profession.

ADMISSIONS

Application for admission to the Nursing program is made through the office of Admissions at Memphis State University. Information regarding an additional examination required for admission to the Nursing program may be acquired through the Admissions Office. Examination for credit in Nursing 1101 is offered by the Department of Nursing to individuals who believe they have already mastered the materials of the course through previous study and experience (see the university statement regarding credit by examination on page 44). Only students who are registered in nursing courses are considered as having entered the Nursing program.

DEGREE REQUIREMENTS

The Associate Degree Program

The Associate Degree program began at Memphis State University in 1967 and is fully accredited by the National League for Nursing. The curriculum, comprising the freshman and sophomore years, prepares the student to enter nursing practice as a registered nurse. It also offers the opportunity to continue uninterrupted to the Bachelor of Science in Nursing degree. To qualify for the Associate of Science Degree in Nursing the student must complete a minimum of 74 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 74 semester hours required for graduation, 37 hours must be in Nursing.

Continuation in the Nursing program is contingent upon the student's making a grade of "C" in all nursing courses. Any student who makes less than a "C" in a nursing course attempted may be terminated from the program or continued on probation upon recommendation of the Nursing faculty.

The 2000 courses may be taken in various sequences; however, students who fail any 2000 course attempted must repeat that course before attempting another nursing course. Course requirements for the Associate Degree in Nursing are as follows:

General Education Requirements

Biology 1731	Phys. Ed.
Biology 1732	Any 1000 level course
Biology 1400	Elective
English 1101	Speech, Art, or Music
English 1102	Elective
Psychology 1101	History or Political Science
Psychology 3103	
Sociology 1111	
Home Economics 2202	

Nursing Requirements

Nursing 1000	Nursing 2113
Nursing 1101	Nursing 2114
Nursing 1102	Nursing 2201
Nursing 2112	Nursing 2202

The Bachelor of Science in Nursing

This portion of the ladder is offered for the first time the fall semester of 1978 and comprises the junior and senior level of the program.

Admission Requirements

1. Graduation from an accredited associate degree or diploma nursing program.
2. Prerequisites: 73 semester hours distributed as follows:

*Biological and Physical Sciences	12
Social Sciences	9
Communication Skills	6
Nutrition	3
Electives	6
**Nursing	37
3. Current Tennessee licensure as a registered nurse.
4. Minimal G.P.A. of 2.00.
5. In the event that there are more applications than spaces available, acceptance of students for the entering nursing class will be granted on the basis of rank order. The rank order will be determined by a weighing of such factors as G.P.A., grades in nursing courses, and letters of recommendation.

*College credit with minimal grade of "C".

**Transcripts of diploma school graduates will be individually evaluated. Ungraded nursing credit will be granted for the equivalency of lower division courses up to 37 total hours of credit.

Degree Requirements

A total of 136 semester hours of credit is required for the Bachelor of Science degree in Nursing. A student must attain a minimum quality point average of 2.0 to graduate.

Course Requirements			
Nursing	61	Nutrition	3
Biological and Physical Sciences	23	History	6
Social Sciences	12	Research	3
Mathematics	6	Physical Education	4
Communication Skills	12	Electives	6
		Total	136

The prospective student should seek advice from the Nursing Department regarding course selection. It is strongly advised that students complete Chemistry 1051 and 1052 before entering the sophomore level.

Memphis State University Honors Program

JOSEPH R. RILEY, B.S., M.A., Ph.D.,
Director
Room 128, Old Brister Library

WHAT THE HONORS PROGRAM IS

The Honors Program has been created to provide exceptional educational opportunities for exceptionally able students. It is expressly intended to nurture the highly motivated, independent individual who seeks a stimulating environment appropriate to his unusual potential. The Program offers a series of specially designed honors sections and courses, from which students may choose those courses which best suit their own interests and needs. In order to graduate with honors, a student must complete successfully a minimum of 18 semester hours of honors work, at least 12 hours of which must be upper-division (junior and senior level). Depending upon which honors track is chosen, a student who completes the Honors Program can be graduated with department, college, and/or University honors. For example, a student might graduate "with honors in English (or economics, or psychology, etc.)," "with honors in Business Administration (or Engineering, etc.)," "with University honors," or with combinations of these.

The University Honors Program is governed by the Honors Council, a committee composed of the Director of the Honors Program, six faculty members chosen by the Academic Senate, and two honors students elected by the Honors Students Association. The Program is housed in Old Brister Library, Rooms 128-130, where the offices of the Director and the Secretary-Recep-

tionist are located; as well as a seminar-conference room and an honors lounge, open to all students who are active in the Honors Program.

ADMISSION TO THE PROGRAM

Incoming freshmen who score at least 26 on the ACT, or its equivalent on other tests, are invited to participate. Transfer students or students previously enrolled at Memphis State University are eligible for the program if they have an overall grade point average of 3.0 for freshmen and sophomores and of 3.25 for upper-division students. Those who do not qualify in one of these ways will be considered upon direct application or receipt by the Director of a recommendation from high school or college faculty.

CURRICULUM AND REQUIREMENTS

Description of a typical honors plan is as follows:

Lower Division: Honors students at this level take specially designated sections of freshman and sophomore courses offered by departments throughout the University. Enrollment is limited to fifteen honors students, and these sections are taught by specially selected honors faculty. Normally an honors student will take one honors class each semester during the first two years, but he may take more (there is no maximum) or fewer (at least 6 hours of lower-division honors credit are required, however, for admittance

to advanced-level honors courses).

Upper Division: After the basic courses in honors have been completed, honors participants must opt for honors at the department, college or University level. Regardless of the individual's choice to pursue department or college honors (and regardless also of the availability of such programs in his chosen field), he may continue toward graduation with University honors. This plan consists at the upper division of four honors courses in which students from across the University may participate. Topics are interdisciplinary in nature and vary from semester to semester. An honors thesis or project may be substituted for one of these courses. Descriptions of college and departmental programs are available in the appropriate college or department, or in the office of the University Honors Program.

REQUIREMENTS AND STANDARDS

During the freshman and sophomore years the honors participant must maintain an overall GPA of at least 3.0 to remain in good standing in the program; the minimum GPA for continuing at the junior and senior levels is 3.25. There is provision for a one-semester probationary period before a participant is discontinued. A minimum grade of B is required in each honors course in order for it to count toward fulfilling the honors course requirement, but regular credit for the course will be earned if the grade is lower than a B.

The Office of International Studies

J. REX ENOCH, B.S., M.A., Ph.D.,
Director

Room 130, Old Brister Library

The Office of International Studies coordinates and assists in the development of the University's teaching, research and service activities in the international field.

Undergraduate interdisciplinary programs for which the Office of International Studies has coordinating responsibility are those in Latin American and African studies, international relations and international business. General descriptions of the programs appear elsewhere in the *Bulletin*, and detailed information on them may be obtained from the Office of International Studies and program advisers.

With the Office of the Vice President for Public Service and Continuing Education, this office is responsible for the conduct of Memphis State-sponsored overseas study and work programs. Current information on these programs and on many others open to Memphis State students is available for reference in this office, and students will be assisted in selecting programs which will best serve their educational needs. Participation in study- and work-abroad programs is not limited to those enrolled in the international studies programs, but is open to all qualified persons.

The Office of International Studies is also prepared to assist students who are interested in participating in overseas exchange programs sponsored by governmental and private organizations. Advanced graduate students engaged in foreign area and international research and study may obtain information about grant opportunities that may be available to them. In cooperation with the Office of Research Administration, the Office of International Studies will give advice and assistance to those interested in applying for financial aid from non-University sources.

The office has responsibilities in a broad range of other international programs in which the University is currently engaged or is prepared to engage. Among these activities are the following: development and administration of interinstitutional consortia in the fields of international studies and programs, including overseas development and technical assistance; the offering of non-credit courses, orientation sem-

inars and training programs for businesses and other organizations with international interests; maintenance of a "talent bank" file on University personnel possessing language skills and foreign area expertise; sponsorship of lectures and seminars on international topics of interest to the University and non-University communities; and dissemination of information about international programs of the University.

INTERNATIONAL STUDIES African Studies

Memphis State University's interdisciplinary program in African Studies, coordinated by the University's Office of International Studies, is open to students majoring in another interdisciplinary field or in a traditional discipline in any of the undergraduate colleges. Those who successfully complete the program will be awarded the Certificate in African Studies. The student's record will reflect the award of this certificate.

The African Studies certificate program is designed to serve the needs of students seeking a general education that emphasizes knowledge of this important world area, those who plan to teach in the elementary or secondary schools, and those who plan to do graduate work in an African or Afro-American field.

The candidate for the Certificate in African Studies will take courses in the fields of African anthropology, geography, history, and politics. There are no special language requirements for the program, but students planning to do graduate work in the field are urged to acquire a working knowledge of French or Portuguese. All students enrolled in the certificate program are encouraged to take advantage of opportunities for study or travel in Africa. Admission to the program is by consent of the African Studies Adviser. The adviser will assist the student in planning his program in accordance with the requirements and his special interests. Requirements are listed below. The African Studies Adviser is Dalvin M. Coger, Department of History.

AFRICAN STUDIES

The Certificate: 21 semester hours from the following courses: Anthropology 3242, 3342, 4742; Geography 3301, 3302; History 4281, 4282, 4283, 4284; Political Science 3308,

3309; International Studies 4301, 4302. At least one course must be taken within each of the four departmental areas (anthropology, geography, history, and political science), and the interdisciplinary sequence course, International Studies 4301-4302, is required of all candidates for the Certificate in African Studies.

International Business

A program leading to the degree of Bachelor of Business Administration with a major in International Business is offered within the College of Business Administration. Several departments of the College of Arts and Sciences participate in the program. The International Business Adviser is John J. Reid, Department of Economics. For a description of the program and degree requirements, see page 62.

International Relations

The International Relations program provides the opportunity to bring the knowledge of several traditional disciplines to bear upon a focal point of human relationships and problems which cross national and cultural boundaries. The program is designed to serve the student who seeks knowledge of the range of contemporary and possible future problems which confront international society and understanding of alternative national and cultural perspectives on solutions to those problems. The program also serves the needs of students planning a career in the Foreign Service or related agencies of the federal government and students preparing for employment abroad in the private sector, or in international organizations, private or public.

International relations is offered as a major only. The program emphasis is on the course work in history, political science, economics, and geography, with contributions from other social science disciplines. Within the program the student is required to concentrate a part of his work in the field of American foreign policy or in one of six areas of the world. Students are encouraged to pursue the study of a foreign language and to seek opportunities for travel and study abroad. The student's program should be planned in consultation with the International Relations Adviser. Course requirements are list-

ed below. The International Relations Adviser is David G. Hoovler, Department of Political Science.

INTERNATIONAL RELATIONS

The Major: 30 semester hours, including Economics 4340, 4350; Political Science 2501, 4501, 4508, and 3505 or 4504; International Studies 4601; and three courses, in at least two disciplines, from one of the following areas of concentration:

- (a) *American Foreign Policy:* Economics 3580; Geography 4421; History 3802, 4811; Political Science 2301, 3506, 4302, 4506; either Political Science 3505 or 4504.
- (b) *Western Europe:* Geography 3401, 4304; History 3200, 4145, 4461, 4462, 4502; Political Science 3302, 4507.
- (c) *Latin America:* Geography 3314, 3315, 4314, 4315; History 3212, 4230, 4240, 4250; Political Science 3306, 4306, 4503.
- (d) *Asia:* Geography 4306; History 3291, 4292, 4294; Political Science 3307, 4307.
- (e) *Soviet Union:* Geography 4305; History 4162, 4163; Political Science 4305, 4502, 4505.
- (f) *Sub-Saharan Africa:* Anthropology 3242; Geography 3302; History 4281, 4283, 4284; Political Science 3308.
- (g) *Middle East and North Africa:* Geography 3301; History 4282, 4284; Political Science 3309.

NOTE: The student electing the major in International Relations is advised to take the following courses to insure that he has an adequate background for the required courses in the major: Economics 1010, 2110; Geography 2301, 2311; History 1301, 1302.

Latin American Studies

The Latin American Studies program offers an interdisciplinary approach to the study of Spanish and Portuguese America. It is designed primarily to serve the needs of students who are planning a career in Latin America or who will work with public or private institutions in capacities that require a broadly based knowledge and understanding of Latin America. It is also structured to meet the needs of students who wish to prepare for graduate study in programs permitting a Latin American concentration, either within a traditional discipline or in an advanced interdisciplinary program. This program is centered on the Spanish and Portuguese languages and Latin American geography, history, literature, and politics. Appropriate courses in anthropology, art, economics, and sociology are also included in the program.

The student may elect Latin American studies as a major or minor. It is strongly recommended, but not required, that the student electing to major in this interdisciplinary field satisfy requirements for a collateral major in one of the traditional disciplines represented in the program. The student is advised that proficiency in spoken Spanish and Portuguese is very desir-

able for those contemplating a career in Latin America. He is also advised to travel in Latin America and to participate in Memphis State University study-abroad programs in that area. The student's program should be planned in consultation with the Latin American Studies Adviser. Course requirements are listed below. The Latin American Adviser is John A. Sobol, Department of Geography.

LATIN AMERICAN STUDIES

The Major: 24 semester hours, including 21 hours from the group of core courses and 3 hours from the group of electives listed below:

- (a) *Core Courses:* Geography 3314, 3315; History 3211, 3212; International Studies 4201; Political Science 3306; Portuguese 3511 or Spanish 3511 or 3512.
- (b) *Elective Courses:* Anthropology 3232, 3332; Art 4162, 4163; Economics 3580; Geography 4314, 4315; History 3200, 3231, 4230, 4240, 4250; Political Science 4306, 4503; Sociology 3900; Spanish 4561, 4562.

NOTE: The student must have a reading knowledge of Spanish or Portuguese (to the proficiency level expected upon completion of the second year college course) to satisfy the requirements of the major. It is recommended that he obtain a collateral major in one of the traditional disciplines represented in the program.

The Minor: 12 semester hours, including Geography 3314 or 3315; History 3211, 3212; Political Science 3306.

NOTE: The foreign language requirement for the minor is the same as for the major.

The Urban Studies Program

STANLEY E. HYLAND,

A.B., M.A., Ph.D.

Coordinator

Room 130, Old Brister Library

The Urban Studies Program is interdisciplinary in nature and deals with issues and problems in complex urban environments. The program focuses attention on "the city"—how it evolved, its structural and functional characteristics, and alternative directions for its growth. In addition to the development of a conceptual framework for the city, the courses in the Urban Studies Program stress participation in local research projects in the areas of housing, pollution, transportation, underemployment and urban life styles. An urban internship in a regional Mid-south public agency is both available and encouraged through the program.

The program's broad orientation and its attention to the causes and consequences of urban problems provides an excellent background for urban careers in organizations such as community action agencies, urban social service

agencies, health planning agencies, and local and county government.

The Urban Studies program is offered through the cooperation of the Departments of Anthropology, Economics, Geography, History, Political Science, and Sociology and Social Work. The above departments as well as other participating departments such as Management, Civil Engineering, Criminal Justice, and Speech and Drama provide the Urban Studies student with the opportunity for personal faculty advising in his/her area of interest as well as involvement in the faculty member's ongoing research projects in the surrounding area.

The student may elect Urban Studies as a major or minor. It is recommended, but not required, that the students majoring in Urban Studies choose a collateral major in one of the traditional disciplines represented in the program.

The requirements for the major are listed below.

The Urban Studies major leads to a B.A. degree which is awarded through the College of Arts and Sciences. Degree requirements for the B.A. are listed on page 53. The student's program should be planned in consultation with the Urban Studies Coordinator, Dr. S. Hyland.

URBAN STUDIES

The Major: 33 semester hours including:

- 1) two interdisciplinary courses:
URBN 4001 (POLS 4224) Urban Studies Seminar
URBN 4412 (SOCI 4412) Urban Research
- 2) four courses from the following core:
ANTH 4411 Urban Anthropology
ECON 4510 Urban and Regional Economics
GEOG 4431 Urban Geography
HIST 3871 U.S. Urban History
POLS 3224 Urban Politics
SOCI 4410 Urban Society
- 3) five courses from the following electives:
ANTH 4410 Complex Societies

ANTH 4752 Applied Anthropology
 ECON 3210 Labor Economics
 ECON 4750 State and Local Finance
 GEOG 3211 Economic Geography II
 HIST 4881 Black American History
 MGMT 3810 Manpower Program Planning

MGMT 3811 Manpower Program Administration
 POLS 4221 Urban Development Administration
 POLS 4224 Urban Problems

SOCI 4620 Human Ecology
 SOCI 4812 Race Relations

The Minor: 18 semester hours including URBN 4001 and 5 others listed above (in core or in elective sets).

The Department of Aerospace Studies

WILLIAM F. CORROUM, B.S., M.S.

Lt. Colonel

*United States Air Force, Professor of
 Aerospace Studies*

Room 404, Jones Hall

The Department of Aerospace Studies provides a four-year program of instruction for all qualified U. S. citizens, male and female, divided into two phases, each of two years duration. The first, termed the General Military Course, offers instruction in the foundation of leadership and Aerospace citizenship. The second, termed the Professional Officer Course, builds upon these foundations in developing upperclassmen who are to become Air Force officers and serve on active duty upon graduation and commissioning. Students may apply for the two-year or four-year program, or they may enroll one year prior to applying for the two-year program.

Instruction in Aerospace Studies has been an important phase of the curriculum at Memphis State University since 1951. Active duty Air Force personnel, approved by the University President, are detailed by the Department of the Air Force to administer the instructional program. Air Force officers serve under appointment by the University as Professor or Assistant Professor of Aerospace Studies.

THE GENERAL MILITARY COURSE: The two-year (4 semesters) General Military Course consists of one hour a week of classroom instruction and one hour a week in Leadership Laboratory. Textbooks are furnished by the Air Force without charge. Air Force uniforms are furnished and must be properly worn and kept in good condition. A uniform deposit is required for all cadets at the time of registration. Cadets who successfully complete the General Military Course may apply for admission to the Professional Officer Course.

THE PROFESSIONAL OFFICER COURSE: The Professional Officer

Course provides instruction and systematic training to selected eligible students who desire to qualify as officers in the United States Air Force while pursuing their academic studies at the University. Successful completion of the requirements for the Professional Officer Course and for a baccalaureate degree leads to a commission in the United States Air Force as a Second Lieutenant. To be eligible for selection to the Professional Officer Course, a student must have at least two years remaining at the University (undergraduate, graduate, or a combination). Final selection is based on academic standing, leadership potential, percentile score on the Air Force Officer Qualifying Test, and physical qualifications. Senior male cadets who are enrolled in the pilot category will engage in a flying program consisting of 25 hours of flight instruction and 2 semester hours of Elementary Aeronautics (AS 4413). All members of the Professional Officer Course receive a subsistence allowance of \$100.00 per month and are issued uniforms provided by the Air Force.

THE TWO-YEAR PROGRAM: All students who meet qualifying criteria, may apply for selection to the Professional Officer Course under the Two-Year Program if they are not in the Four-Year Program. Applications must be received not later than May 1 of each year. If selected, the student will attend a six-week field training program during the summer prior to entry into the Professional Officer Course. Graduates of the six-week field training are enrolled in the Professional Officer Course with the same status as cadets in the four-year program.

AIR FORCE ROTC COLLEGE SCHOLARSHIP PROGRAM: Full scholarships which pay full tuition and fees,

full book allowance, transportation to Memphis, and a tax free subsistence allowance of \$100.00 per month are available to entering freshmen and cadets enrolled in the Air Force ROTC programs. Details concerning qualifications and applications can be obtained from the Department of Aerospace Studies. (See Chapter 4, Scholarships)

FIELD TRAINING: Four-year cadets enrolled in the Professional Officer Course will attend a four-weeks field training program at an Air Force Base during the summer between their sophomore and junior years. Cadets who register for AS 3211 (Four-Week Field Training), prior to attending field training, will receive an academic grade with four hours academic credit. Students applying for the Professional Officer Course Two-Year Program will attend a six-weeks field training program at an Air Force Base prior to entering the Professional Officer Course as a cadet. Students who register for AS 3212 (Six-Weeks Field Training), prior to attending field training, will receive an academic grade and six hours academic credit.

MINOR IN AEROSPACE STUDIES: Upon successful completion of 18 semester hours in Aerospace Studies, a cadet may apply for a minor in Aerospace Studies.

SPECIAL STUDENT PROGRAM: This is available to all students who have not previously enrolled in an ROTC course in the University. AFROTC scholarship recipients are not eligible. This program applies to a student's first semester in any GMC course. The special student does not pay the uniform deposit, does not have to meet strict Air Force hair standards, does not wear the uniform. Full credit is received for the course.



The section which follows contains a listing of all departments in the University by the college in which they are located and a description of all course offerings. The official course title appears in bold-face type following the course number. The figures in parentheses after the description of a course denote the number of semester hours of credit for that course. If the credit is variable, to be fixed in consultation with the instructor, that fact is indicated by the minimum and maximum credit, as Biology 4000 (2 to 4).

Courses are numbered according to the following system:

1000-1999 Courses primarily for freshmen

2000-2999 Courses primarily for sophomores
3000-3999 Courses primarily for juniors
4000-4999 Courses primarily for seniors and for which graduate credit is not offered. (There is sometimes a corresponding 6000 number for which graduate credit is offered to graduate students.)
5000-5999 Courses offered in The Graduate School but open to seniors within 36 semester hours of graduation

Course numbers have no reference to

the semester in which the courses are taught.

The Schedule of Classes is published a few weeks prior to the opening of each semester and The Summer Session. It contains a listing of the specific courses to be offered, with the time, place, and instructor in charge of each section. It also contains special announcements concerning registration procedures and courses which may have been added since the publication of the *Bulletin*. Copies are available in the office of the Associate Dean of Admissions and Records (Records).

The numbers in brackets following the course descriptions represent the HEGIS taxonomy and mode of instruction.

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THE COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY

ASSOCIATE PROFESSOR THOMAS W. COLLINS, *Chairman*
Room 122, Clement Humanities Building

Requirements for the major and minor are listed on page 54.

Honors Program in Anthropology

The Department of Anthropology offers an honors program in anthropology to the superior anthropology student who desires a more intensive approach to and knowledge of the discipline, a deeper understanding of research skills, and an opportunity for original criticism and analysis. To be eligible a student must (a) have the approval of the Departmental Honors Committee, (b) be an anthropology major, (c) have attained at least junior standing, (d) have completed successfully Anthropology 1100, 1200, and one upper-division anthropology course, (e) maintained a cumulative grade point average of at least 3.00 in overall studies, (f) maintained a cumulative grade point average of at least 3.25 in anthropology. Upon successful completion of four honors courses in anthropology (at least one of which must be an independent study culminating in a research paper/thesis or research report) and a minimum of six hours in honors courses outside of anthropology, the student will receive on the diploma the special distinction "With Honors in Anthropology". Details of the program are available at the Department of Anthropology office.

IMPORTANT NOTE: *Anthropology 1200 may be taken before Anthropology 1100.* Anthropology 1200 is a general prerequisite for the upper division courses; exceptions can be granted by individual instructors.

E010 ANTHROPOLOGY (ANTH)

- 1100. Man's Place in Nature. (3).** Man's place in nature, human origins, the fossil record from archeological excavations, the biological aspects of race. [2201-1]
- 1200. Man and Culture. (3).** The origin and development of human culture. The study of social relations, language, government, religion and ritual, and the problems of developing nations or minority groups in the modern world. [2201-1]
- 1300. Introduction to Archeology. (3).** Description of the archeological evidence for the development of human culture from its earliest beginnings to the rise of civilizations. Introduction to the principles and methods of archeology. [2203-1]
- 1400. Urban Anthropology of Contemporary America. (3).** Anthropological interpretation of diverse and changing life patterns in American urban society. Specific attention is given to the cross-cultural analysis of divergent settlement patterns, kinship networks and political, religious and economic systems. [2214-1]
- 3035. Indians of Tennessee and Adjacent Areas. (3).** A survey of the archeology and ethnology of the Southeast, with intensive study of the various Indian cultures of Tennessee and bordering states. [2202-1]
- 3065. The Rise of Anthropological Thought. (3).** An introduction to the rise of anthropology as a science. Emphasis on anthropological thinking and theories of the 19th and early 20th century. PREREQUISITES: ANTH 1100 and 1200 or permission of instructor. [2202-1]
- 3111. Human Paleontology. (3).** Examination of the Hominid fossil record starting with primate developments; human evolution; human osteology. [2202-1]

- 3200. Peoples and Cultures of the World. (3).** (Same as Geography 3200). Survey of the major ethnographic areas and of selected cultures of the world. [2202-1]
- 3225. Ethnological Field Techniques. (3).** Methods of collecting and interpreting data pertaining to contemporary societies; professional ethics and legal responsibilities of investigators in cross-cultural research. [2202-8]
- 3231. Ethnology of North America. (3).** Description and distribution of aboriginal culture types of North America north of Mexico; comparisons and inter-relationships during the pre- and post-contact periods. [0313-1]
- 3232. Ethnology of Latin America. (3).** Description and distribution of the peoples and cultures of South America and Mesoamerica; comparisons and inter-relationships during the pre- and post-contact periods. [0308-1]
- 3242. Ethnology of Africa. (3).** Description and distribution of the peoples and cultures of Africa; comparisons and inter-relationships during the pre- and post-contact periods. [0305-1]
- 3272. Ethnology of Oceania. (3).** Description of the peoples and cultures of Oceania (including Australia); comparisons and inter-relationships during the pre- and post-contact periods. [0314-1]
- 3321. Archeological Field Techniques. (3).** Experience in field excavations; preparation of specimens, use of survey instruments, photographing and keeping archeological records, map making of small ground areas. Hours individually arranged. PREREQUISITE: permission of instructor. [2203-8]
- 3322. Archeological Field Techniques. (3).** A continuation of Anthropology 3321. PREREQUISITE: permission of instructor. [2203-8]
- 3331. Archeology of North America. (3).** Description and distribution of prehistoric cultural remains in North America north of Mexico. Discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. [2203-1]
- 3332. Archeology of Latin America. (3).** Description and distribution of prehistoric cultural remains in South America and Mesoamerica, with emphasis on Mexico and Peru. [2203-1]
- 3342. Archeology of Africa. (3).** Description and distribution of archeological remains in Africa; discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. Emphasis on the cultural achievements of pre-colonial Africa. [2203-1]
- 3351. Archeology of Europe. (3).** Development of the various European civilizations and their influence and inter-relationships with other cultures through Europe and Eurasia. [2203-1]
- 3352. Archeology of Asia. (3).** Description and distribution of prehistoric cultural remains in Asia; discussion and comparison of the major regional sequences, extending from the earliest evidences of human occupation until historic times. [2203-1]
- 3422. Social and Ethnic Minorities. (3).** (Same as Sociology 3422). A comparative study of social and ethnic minorities in the United States and elsewhere with a focus on differences in cultural backgrounds, social relationships with the larger society; social, educational, and legal problems; factors contributing to satisfactory and unsatisfactory adjustments of minorities. [2202-1]
- 3611. Linguistic Anthropology. (3)** Nature and usefulness of symbols, mechanisms by which

- they are communicated, relation of symbolic systems to thought and culture, comparative techniques used to reconstruct prehistoric languages. [2202-1]
- 3930. Mexican Society and Culture (3).** (Same as Sociology 3930). A study of Mexico's social development, population, contemporary institutions and cultural patterns, the family, the community and urban society, minority group relations, and social problems. [2202-1]
- 4051. Anthropology and Education. (3).** (Same as EDFD 4051). An advanced study of the cultural transmission process with emphasis on identifying differing behavioral, cognitive and learning styles of various ethnic groups within American society and selected third world countries. Encounters of U.S. subcultural groups with the public education system are examined. PREREQUISITE: permission of instructor. [2214-1]
- 4065. Contemporary Anthropological Theory. (3).** Contemporary growth of theories and methods in anthropology. PREREQUISITES: 1100, 1200, or permission of instructor. [2202-1]
- 4111. Human Adaptations. (3).** Study of human populations and their variability; examination of the human adaptations in locomotion and manipulation, facial structure, the brain and language, and reproduction; comparisons to the anatomy, physiology, and behavior of other primates. [2202-1]
- 4252. Economic Anthropology. (3).** Comparative analysis of economic systems and their functional relationships to other cultural institutions; production, distribution, and consumption; concepts of wealth, value, property, and ownership. [2202-1]
- 4253. Anthropology of Religion. (3).** Comparative analysis of religious systems and their functional relationships to other cultural institutions; inter-relations of myth, magic, and ritual; types of religious institutions and religious practitioners. [2202-1]
- 4254. Cultural Change. (3).** Internal and external factors causing change; theories of cultural evolution; social changes involved in the emergence of civilization; changes involved in industrialization. [2202-1]
- 4255. Political Anthropology. (3).** Comparative analysis of political systems and their functional relationships to other cultural institutions; formation and segmentation of political structures; requisites of leadership and political control. [2202-1]
- 4321. Archeological Field Control. (3).** Methods of dealing with archeological field problems; individual instruction in collection, recording, and field analysis of both historic and prehistoric archeological data. [2203-8]
- 4325. Archeological Field Techniques and Restoration. (3).** Individual instruction in dealing with archeological field problems and methods of modern conservation and restoration techniques. PREREQUISITE: permission of the instructor. [2203-8]
- 4351. Evolution of Civilization. (3).** Comparative investigation of the origins of civilization in the Old and New Worlds. Development and study of models to explain the cultural, social, political, and other changes that lead to and define civilization. [2202-1]
- 4354. Archeology of the Holy Land. (3).** A survey of the archeological remains in the Holy Land from the Stone Age to the early Christian Era. [2203-1]
- 4370. Historic Archeology. (3).** Review of the contributions of archeologists to historical research. The methods and techniques of the

archeologists as required and modified by the excavation and interpretation of historic materials. The allied specialties unique to Historic Archeology including documentary investigations and the conservation and restoration of existing structures. [2203-1]

4375. Intercultural Communication. (3). (Same as Speech 4375). A study of the special problems encountered in communications between people of different cultural backgrounds. The study focuses upon understanding the communicative interaction between and among people with different national/cultural backgrounds and functioning more effectively in multi-cultural settings. [2202-1]

4380. Museology. (3). (Same as Art 4380). The history and development of museums; mandate and variety of institutions; significant research facilities; historical and contemporary collections, and the educational roles of museums in contemporary society. [2202-1]

4381. Archeological Laboratory and Research Techniques. (3). Coverage of basic archeological laboratory and research techniques, including processing, cataloging, storage of specimens, and analysis of a small body of archeological data on an individual basis. PREREQUISITE: permission of instructor. [2203-8]

4382. Museum Operation. (3). (Same as Art 4382). Basic aspects of museum organization, management, exhibit planning and execution, and maintenance of collections and records. [1003-1]

4410. Complex Societies. (3). Folk society, peasant society, and the pre-industrial state. Community studies. Anthropological studies of social institutions and groupings in industrial settings. [2202-1]

4411. Urban Anthropology. (3). Anthropological studies of pre-industrial and industrial cities. Urbanization, movements of social transformation and other processes of adjustment to an urban milieu. Urban slums, ethnic enclaves and housing developments in cross-cultural perspective. Urban kinship and social organization. Urban community development. Urban research techniques. PREREQUISITE: ANTH 1200 or SOCI 1111, or permission of instructor. [2214-1]

4511. Medical Anthropology. (3). Cross-cultural studies of medical care, professionals, and delivery systems. Comparative study of different cultural reactions to medical care. Current studies on nutrition and mental health. An introduction to subcultural and ethnic variations of response to medical care in the United States and the Mid-South. [2202-1]

4724. Primitive Technology. (3). An anthropological survey of the development of technology. Analysis of the origins of primitive techniques, subsistence patterns, arts, crafts, machines, and tracing of their relationship to social organizations. A comparative examination of prehistoric and historic information. [2202-1]

4751. Culture and Personality. (3). Comparison of factors involved in the analysis of personality as contrasted to culture; the interaction of these factors; problems of studying personality cross-culturally. [2202-1]

4752. Applied Anthropology. (3). Application of anthropological knowledge and techniques to contemporary problems in government, industry, public health, community development, and urbanization. [2202-1]

4975. Directed Individual Readings. (1-4). Intensive guided survey of anthropological and related literature dealing with topics selected by advanced students and accepted by the staff. Compilation, synthesis, and evaluation of the published data; preparation for students considering anthropology as a profession. PREREQUI-

SITE: permission of chairman and the designated staff. [2202-8]

4985. Directed Individual Research. (1-3). Intensive guided study of original data, in areas selected by advanced students and accepted by the staff. Collection and/or processing of data in physical anthropology, ethnology, applied and urban anthropology, archeology, and linguistics; description, classification, analysis, and synthesis. Preparation for publication. PREREQUISITE: permission of chairman and the designated staff. [2202-8]

4995. Seminar in Anthropology. (3). Problems in contemporary anthropology; may be offered in sections dealing with different topics; field trips and individual assignments. [2202-1]

Graduate courses in Anthropology: For details of the graduate program see The Bulletin of The Graduate School.

BIOLOGY

PROFESSOR CARL DEE BROWN, *Chairman*

201B, Life Science Building

Requirements for the major and minor in biology are listed on page 54. Information concerning pre-professional curricula will be found on page 47. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 54.

ADVANCED PLACEMENT

Beginning freshmen who have completed an advanced biology course in high school may apply to the chairman of the Department of Biology, during the semester preceding enrollment, for advanced placement.

E060 BIOLOGY (BIOL)

1001. Introduction to Biology. (3). An introductory survey of biology, with emphasis on the animal kingdom, designed for non-science majors. Credit in this course is not acceptable for the biology major or in related pre-professional curricula. Credit not allowed for both Biology 1001 and 1600. *Two lecture, two laboratory hours per week.* [0401-1]

1002. Introduction to Biology. (3). A continuation of Biology 1001, with emphasis on the plant kingdom. Credit in this course is not acceptable for the biology major or in the pre-professional curricula. Credit not allowed for both Biology 1002 and 1200. *Two lecture, two laboratory hours per week.* [0401-1]

1200. General Plant Biology. (4). A survey of the plant kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms. *Three lecture, three laboratory hours per week.* [0402-1]

1400. Microbiology. (4). A course designed to meet the requirements of student nurses and majors in the Department of Health, Physical Education, and Recreation. *Three lecture, two laboratory hours per week.* [0411-1]

1600. General Animal Biology. (4). A survey of the animal kingdom, considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms. *Three lecture, three laboratory hours per week.* [0407-1]

1631. Human Anatomy and Physiology. (3). A study of the structure and function of the human organism, designed primarily for majors in the Department of Health, Physical Education, and Recreation. *Two lecture, two laboratory hours per week.* [0412-1]

1632. Human Anatomy and Physiology. (3). A continuation of Biology 1631, designed primarily

for majors in the Department of Health, Physical Education, and Recreation. *Two lecture, two laboratory hours per week.* PREREQUISITE: BIOL 1631 or the equivalent. [0412-1]

1731. Anatomy and Physiology. (4). A detailed study of the structure and functions of the human organism. *Three lecture, two laboratory hours per week.* [0412-1]

1732. Anatomy and Physiology. (4). A continuation of Biology 1731. *Three lecture, two laboratory hours per week.* PREREQUISITE: BIOL 1731 or the equivalent. [0412-1]

2000. Fundamental Concepts of Biology. (3). An expansion of and an elaboration on basic biological concepts introduced in Biology 1200 and Biology 1600. Topics of discussion to include cell structure, cell function, reproduction, genetics, evolution, and ecology. Both unifying and comparative in nature. Required of all majors in biology. PREREQUISITES: BIOL 1200 and 1600 or their equivalents and corequisite CHEM 1112 or the equivalent. [0401-1]

2001. Elements of Biology. (3). A study of the basic concepts of animal and plant life. (This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.) *Two lecture, two laboratory hours per week.* [0401-1]

2002. Natural History and Bio-Conservation. (3). Emphasis is placed on plants and animals in their environment, the use of field work in teaching elementary science, and the study of ecological principles related to bio-conservation. (This course, designed for students in The College of Education seeking certification in elementary education, will not satisfy science requirements for degrees in other colleges of the University.) *Two lecture, two laboratory hours per week.* PREREQUISITE: BIOL 2001. [0401-1]

Completion of both Biology 1200 and Biology 1600 shall be required before enrolling in any course numbered 3000 or above, acceptable for a major or minor.

3030. Principles of Animal Physiology. (4). Basic concepts of animal function, including the study of many invertebrate phyla and most classes of vertebrate organisms. *Two lecture, four laboratory hours per week.* PREREQUISITE: 8 hours of animal biology or the equivalent and co-requisite: CHEM 3311. [0410-1]

3050. General Ecology. (4). The study of plant and animal communities in relation to their environment. *Two lecture, four laboratory hours per week.* [0420-1]

3070. Genetics. (4). A study of the principles of heredity, including laboratory experiments in *Drosophila* breeding. *Three lecture, three laboratory hours per week.* PREREQUISITES: BIOL 2000 or the equivalent. [0422-1]

3100. History of Biology. (3). The development of the science of biology, considering the work of outstanding biologists and the influence of their contributions. PREREQUISITE: 16 semester hours in biology, or permission of the instructor. [0401-1]

3170. Heredity. (3). The principles of heredity with applications to human problems, designed for non-science majors and recommended for students who desire a better understanding of heredity and eugenics. Not acceptable as credit toward a biology major or minor. [0422-1]

3221. Plant Morphology. (4). Comparative studies of general structure of lower plants, through the bryophytes. *Two lecture, four laboratory hours per week.* [0412-1]

3222. Plant Morphology. (4). A continuation of Biology 3221, considering the vascular plants. *Two lecture, four laboratory hours per week.* [0412-1]

3240. Field Botany. (4). Observation, classification, and mounting of representative specimens of flowering plants in the Memphis area. *Two lecture, four laboratory hours per week.* [0402-1]

3400. The Relation of Microorganisms to Man. (3). The nature and activities of the microorganisms as they affect the welfare of man; some time is devoted to the pathogens—etiology and transmission of diseases, immunity, and other factors bearing upon the health of the individual and the community. Designed for non-science majors. Credit not allowed for both 3400 and 3500. Not acceptable as credit toward a Biology major or minor. [0411-1]

3500. General Microbiology. (5). A general course dealing with the fundamentals of bacteriology. *Three lecture, four laboratory hours per week.* PREREQUISITE: BIOL 2000 or equivalent. [0411-1]

3560. Applied Microbiology. (4). An introduction to the microbiology of water, soil, air, food sewage, industrial processes, and pathogens. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 3500 or equivalent. [0411-1]

3600. Ornithology. (4). A study of the habitats, migrations, nesting habits, and classification of birds. Field trips for recognition of the more common local birds will be organized as needed. *Two lecture, four laboratory hours per week.* [0499-1]

3610. Vertebrate Embryology. (4). The development of selected vertebrate embryos from the fertilized egg cell. *Two lecture, four laboratory hours per week.* [0427-1]

3620. Comparative Anatomy of Vertebrates. (5). The origin, development, structure, and functions of the organs and systems of selected forms of vertebrates. *Two lecture, six laboratory hours per week.* [0412-1]

3700. Vertebrate Zoology. (4). A study of the life histories, adaptations, ecology, distribution, behavior, and classification of vertebrates. *Two lecture, four laboratory hours per week.* [0407-1]

3730. Human Physiology. (4). A study of the normal functions of the human body. *Three lecture, two laboratory hours per week.* [0410-1]

3800. Parasitology. (4). Distribution, morphology, life history, economic importance, and control of some of the parasites of man and domestic animals, Protozoa through helminths. *Two lecture, four laboratory hours per week.* [0408-1]

3900. General Entomology. (4). An introduction to the insects with emphasis on morphology, physiology, development, behavior, and ecology. *Three lecture, three laboratory hours per week.* [0421-1]

3940. Systematic Entomology. (4). Classification of the insects, the interpretation and use of keys, and the preparation of a representative collection. Extended field trips to be arranged. *Two lecture, four laboratory hours per week.* [0421-1]

3960. Medical Entomology. (4). Distribution, morphology, life history, medical importance, and control of some of the insects and other arthropods which serve as vectors for disease-producing organisms. *Two lecture, four laboratory hours per week.* [0421-1]

3965. Pest Control. (4). Recognition, life history, habits, and control of insect pests attacking stored grain, wood, fabrics, food products and animals. Also included will be studies of some non-insect pests, such as noxious birds, rodents,

and snakes. *Two lecture, four laboratory hours per week.* PREREQUISITE: permission of the instructor. [0421-1]

4000. Problems in Biology. (2 to 4). Individual problems pursued by qualified students under supervision of a member of the biology faculty, designed to develop interest and proficiency in biological research. [0401-8]

4001. General Toxicology. (4). An introductory study of the harmful actions of chemicals on biological mechanisms. *Three lecture, two laboratory hours per week.* PREREQUISITE: BIOL 2000, CHEM 3312, or consent of instructor. [0426-1]

4031. Bioenergetics. (4). An analysis of the diversity and unity of energetics in living systems. Emphasis is on the evolutionary relationships of specific cellular components to different modes of bioenergetics. PREREQUISITE: CHEM 3312. [0415-1]

4050. Field Technique in Ecology. (4). A field technique course of applied ecology covering practical training in forest, field, aquatic, and atmospheric sampling and analysis. Extended field trips will be arranged. *Two lecture, four laboratory hours per week.* PREREQUISITES: BIOL 2000 and consent of instructor. [0420-1]

4060. Limnology. (4). Physical and chemical attributes of lakes, ponds, and streams; organisms of fresh water; problems of production; practical training in limnological methods and identification of organisms. *Two lecture, four laboratory hours per week.* PREREQUISITE: one year of chemistry. [0499-1]

4080. Radiation Biology. (3). The origin and characteristics of ionizing radiations with a detailed discussion of radiation effects upon life processes from the molecular to the ecosystem level. *Two lecture, two laboratory hours per week.* PREREQUISITES: CHEM 3311 or 3312; BIOL 3070. [0423-1]

4100. Organic Development. (3). The consideration of theoretical and scientific evidences concerning the origin, development, and establishment of the major groups of living and extinct animals and plants. Recommended for biology majors and general students as well. [0401-1]

4130. Cell and Molecular Biology. (4). An introduction to the principles of molecular biology including discussions of ultrastructure, intracellular metabolism, gene structure and function, and cell differentiation. *Two lecture, four laboratory hours per week.* PREREQUISITES: BIOL 2000 or its equivalent, BIOL 3070, and CHEM 3312. [0416-1]

4160. Histological Techniques. (4). A study of the methods of preparing plant and animal materials for microscopic study; theories of staining and preparation of permanent mounts. *One lecture, six laboratory hours per week.* PREREQUISITE: BIOL 2000 or the equivalent or consent of instructor. [0413-1]

4225. Mycology. (4). A study of the basic life cycles, morphology and classification of fungi. Consideration of the interaction of fungal organisms in the environment. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 2000, or the equivalent or consent of instructor. [0499-1]

4226. Phycology. (4). A systematic and comparative study of the morphology and reproduction of algae with emphasis on the fresh water forms. Selected topics on algal genetics, algal physiology, and pollution will be included. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 2000, or the equivalent or consent of instructor. [0499-1]

4231. Plant Physiology. (4). A study of the principles of physiology and their application to the lower plant groups, exclusive of the bacteria

and related forms. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 2000 or its equivalent. [0406-1]

4232. Plant Physiology. (4). Principles of physiology and their application to the living organism, with emphasis on higher plants. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 2000 or the equivalent. [0406-1]

4240. Plant Taxonomy. (4). Principles of plant taxonomy, with special attention given to the classification of selected vascular plant families. *Lectures, laboratory hours, and field trips.* PREREQUISITE: permission of the instructor. [0499-1]

4250. Ecology of Forests and Arable Lands. (4). Developmental and structural analysis of forest types and arable lands. Regional silviculture in the United States. Autecology of important species. Field trips to be arranged. *Three lecture, two laboratory hours per week.* PREREQUISITE: BIOL 3050, or permission of the instructor. [0420-1]

4400. Advanced Microbiology. (4). Advanced theory and principles of microbiology with emphasis on morphology and bacterial metabolism. *Two lecture, four laboratory hours per week.* PREREQUISITES: BIOL 3500 and one year of inorganic chemistry, with organic chemistry desirable. [0411-1]

4440. Pathogenic Microbiology. (4). A survey primarily of the pathogenic bacteria, the diseases they cause and methods of diagnosis with an introduction to immunological principles and immunity. Considerable attention is given to laboratory methods used for identification of pathogenic bacteria. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 3500, with organic chemistry desirable. [0411-1]

4444. Immunology. (4). A study of *in vitro* and *in vivo* reactions of antigens and antibodies, hypersensitivities, blood groups and vaccines. *Two lecture, four laboratory hours per week.* PREREQUISITES: BIOL 3500 and CHEM 3311. [0408-1]

4460. Sanitary Bacteriology. (4). A study of microorganisms in relation to water and sewage; disinfection and disinfectants. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 3500 or consent of the instructor. [0403-1]

4470. Molecular Genetics. (4). The structure, functions and replication of DNA, recombination, the colinearity of DNA with the genetic map, mutagenesis, gene transfer, plasmids, the code, protein synthesis, suppression, regulation of gene expression, and genetic engineering are discussed in the course. The course is a basic course for students without formal training in molecular genetics. *Two lecture and four laboratory hours per week.* PREREQUISITE: Organic chemistry or consent of instructor. [0426-1]

4560. Microbiology of Foods. (4). Microorganisms in natural and processed foods; origins, nature, and effects on foods; enumeration, and the relation to health. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 3500 or consent of the instructor. [0411-1]

4604. Ethology. (4). A study of animal behavior with emphasis on recent developments in the field, including history of ethology, learning, releasers, communication, orientation, instinct, biological clocks, and evolution of behavior. *Two lecture, four laboratory hours per week.* [0499-1]

4620. Vertebrate Histology. (4). Microscopic study of normal tissues and organs of the vertebrate body. *Two lecture, four laboratory hours per week.* PREREQUISITE: BIOL 3620 or 3730. [0413-1]

4630. General Endocrinology. (3). Anatomy and physiology of the organs of internal secretion; role of hormones in metabolism and development. **PREREQUISITE:** BIOL 3730. [0410-1]

4640. Field Zoology. (4). Field study of the identification, life history, and habitat of the animals of this locality; birds and insects are omitted. *Two lecture, four laboratory hours per week.* [0407-1]

4644 Ichthyology. (4). Collection, preservation, identification, life histories, management, and economic importance of fishes. *Two lecture, four laboratory hours per week.* [0499-1]

4651. Field Techniques in Vertebrate Zoology. (4-6). Techniques in the field study of vertebrates. This course is primarily designed for extended field studies outside the local area. [0407-9]

4720. Vertebrate Neurology. (4). A study of the nervous system of selected vertebrates. *Three lecture, two laboratory hours per week.* **PREREQUISITE:** permission of instructor. [0425-1]

4740. Mammalogy. (4). Classification, distribution, life histories, economic importance, techniques of field study, methods of collection and preservation of mammals. *Two lecture, four laboratory hours per week.* **PREREQUISITE:** BIOL 3620. [0499-1]

4744. Herpetology. (4). Classification, distribution, life histories, techniques of collection and preservation, natural habitats of North American reptiles and amphibians. *Two lecture, four laboratory hours per week.* [0499-1]

4760. Wildlife Management. (4). Distribution, identification, population analysis, game mapping techniques, and management of wildlife. *Two lecture, four laboratory hours per week.* **PREREQUISITES:** BIOL 3050 and one of the following: BIOL 3600, 4640, 4644, 4740, 4744. [0499-1]

4820. Protozoology. (4). A survey of the free living and parasitic protozoa, with consideration given to structure, function, taxonomy, habitat, and life history. *Two lecture, four laboratory hours per week.* [0499-1]

4840. Invertebrate Zoology. (4). The invertebrate animals, exclusive of the insects, with special attention given to phylogeny, organology, and taxonomy. *Two lecture, four laboratory hours per week.* [0499-1]

4901. Field Technique in Entomology. (4). A course devoted to the study of field techniques used in aquatic entomology and larval taxonomy. *Two lecture, four laboratory hours per week.* **PREREQUISITE:** permission of instructor. [0421-1]

4920. Insect Morphology. (4). A study of the form and structure of insects, considering both external and internal morphology. *Two lecture, four laboratory hours per week.* [0421-1]

4930. Insect Physiology. (4). A study of physiology as applied to the life processes of insects. *Two lecture, four laboratory hours per week.* **PREREQUISITE:** MIOL 2000, or the equivalent. [0410-1]

Graduate courses in Biology: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

CHEMISTRY

PROFESSOR JAMES C. CARTER, *Chairman*

Room 210, J. M. Smith Hall

The Department of Chemistry offers courses leading to the B.S. degree with a major in either chemistry or physical science. Details of these

programs are listed on p. 54. The Department also offers a program culminating in the professional degree of Bachelor of Science in Chemistry, for which details are outlined on p. 53. This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in chemical industry, or to enroll for postgraduate study in chemistry. Information concerning pre-professional curricula is found on p. 47. The program leading to the degree of Bachelor of Science in Medical Technology is outlined on p. 54.

SEQUENCE OF COURSES

Students who present credit for at least two years of high school mathematics (including algebra), or who have an ACT mathematics score of 22 or better, should enroll in Chemistry 1111 if they plan to take more than one year of college chemistry, or plan to major in either a natural science or in civil, mechanical, or electrical engineering. Chemistry 1100 is a one-semester course designed for those students of limited preparation in mathematics whose curriculum calls for the Chemistry 1111-1112 sequence. Chemistry 1051-1052 is a two-semester sequence designed for students interested in the science of chemistry and its impact on modern society. This sequence is not credited toward a major in chemistry or physics but contributes to fulfilling the University science requirements of other majors. It is normally undertaken by those who require only one year of chemistry in satisfying their degree requirement. Credit may not be received for both Chemistry 1100 and Chemistry 1111 simultaneously. Physical Science 1031-1032 is an introductory sequence requiring no previous science experience. These courses emphasize fundamental principles and concepts, and are designed for non-science majors interested in a study of several areas of physical science.

ADVANCED PLACEMENT

Beginning students who have had previous high school training in chemistry are invited to apply for advanced placement.

E070 CHEMISTRY (CHEM)

1000. Chemistry of Life Processes. (4). An introduction to chemistry as related to the understanding of life processes. The implications of topics from general and organic chemistry, as well as biochemistry, are examined. *Three lecture, two laboratory hours per week.* *This course will not be credited toward a major in chemistry, physics, physical science, or engineering, nor does it satisfy the general education science requirement.* [5208-1]

1051. College Chemistry. (4). A study of the fundamental laws of chemistry and the impact of chemistry on modern society. *Three lecture, two laboratory hours per week.* *This course will not be credited toward a major in chemistry or physics.* [1905-1]

1052. College Chemistry. (4). A continuation of Chemistry 1051 with emphasis on elementary organic and biochemistry. *Three lecture, two laboratory hours per week.* *This course will not be credited toward a major in chemistry or physics.* **PREREQUISITE:** CHEM 1051. [1905-1]

1100. Introduction to Chemistry. (3). Designed for students whose curriculum requires Chemistry 1111, but who feel that their background is inadequate. Emphasis is placed on scientific calculations and the properties of matter. *Three lecture hours per week.* *This course will not be credited toward a major in chemistry, physics, physical science, or engineering, nor does it satisfy any part of the science requirement for any degree.* **COREQUISITE:** MATH 1211 or 1212 is recommended. [1905-1]

1111. Principles of Chemistry. (4). A basic course in chemistry designed for students who are majoring in one of the physical sciences, biology, mathematics or engineering, or who are following a pre-professional program requiring additional chemistry. *Three lecture, three laboratory hours per week.* **PREREQUISITE:** Two units of high school mathematics including algebra, or an ACT score of 22 or better on the mathematics section, or CHEM 1100. **COREQUISITE:** MATH 1211, 1212, or 1321. [1905-1]

1112. Principles of Chemistry. (4). A continuation of Chemistry 1111. *Three lecture, three laboratory hours per week.* **PREREQUISITE:** CHEM 1111. [1905-1]

3200. Chemical Equilibrium and Electrochemistry. (2). A study of acid-base, solubility, complexation equilibria including activity effects, electrochemistry, and electroanalytical chemistry. Emphasis is placed upon modern methods of problem solving. *Two lecture hours per week.* **COREQUISITE:** CHEM 3411. [1909-1]

3301. General Organic Chemistry Laboratory. (1). Designed to accompany Chemistry 3311. Emphasis is placed on laboratory techniques as applied to synthesis and class reactions. *Three laboratory hours per week.* **PREREQUISITE:** CHEM 1112. **COREQUISITE:** CHEM 3311. [1907-1]

3302. General Organic Chemistry Laboratory. (1). A continuation of Chemistry 3301, with emphasis on the correlation of chemical behavior with structure. *Three laboratory hours per week.* **PREREQUISITE:** CHEM 3311 and 3301. **COREQUISITE OR PREREQUISITE:** CHEM 3312. [1907-1]

3311. General Organic Chemistry. (3). A systematic study of the preparations and properties of organic compounds, including interpretations based on modern theories of organic chemistry. Particular emphasis is placed on aliphatic and aromatic hydrocarbons, their halogen derivatives, and alcohols. *Three lecture hours per week.* **PREREQUISITE:** CHEM 1112. [1907-1]

3312. General Organic Chemistry. (3). A continuation of Chemistry 3311, with emphasis on the more important functional derivatives of aliphatic and aromatic hydrocarbons. **PREREQUISITE:** CHEM 3311. [1907-1]

3400. Chemical Analysis. (2). A treatment of the theory and practice of modern chemical analysis. Topics include acid-base, redox, and complex ion equilibria, separation methods, absorptiometry, flame spectroscopy, and electroanalytical methods. *Two lecture hours per week.* **PREREQUISITE:** CHEM 3311. [1909-1]

3401. Elementary Physical Chemistry. (3). An abbreviated course in physical chemistry. Topics include elementary thermodynamics, phase transitions, solution chemistry, electrochemistry, kinetics, colloidal and surface chemistry, and molecular polarity. (Credit in this course is superseded by credit in Chemistry 3411). *Three lecture hours per week.* **PREREQUISITES:** CHEM 3311 and PHYS 2112 or 2512. [1908-1]

3404. Chemical Analysis Laboratory. (2). Designed to accompany Chemistry 3400. Application of the techniques of quantitative analysis in areas described in Chemistry 3400. *Six laboratory hours per week.* **COREQUISITE:** CHEM 3400. [1909-1]

3407. Elementary Physical Chemistry Laboratory. (1). An introduction to measurement of physical quantities, including equilibrium constants, heats of reaction, molecular weight, viscosities, and reaction rate constants. *Three laboratory hours per week.* **COREQUISITE:** CHEM 3401. [1908-1]

3411. Physical Chemistry. (3). Thermochemical foundations of physical chemistry applied to open and closed systems, kinetic theory of gases, and surface chemistry. *Three lecture hours per week.* PREREQUISITE: PHYS 2112 or 2512; MATH 2321. [1908-1]

3412. Physical Chemistry. (3). A continuation of Chemistry 3411 emphasizing kinetics of chemical reactions, quantum chemistry, chemical bonding, statistical mechanics, spectroscopy, and other methods of structure determination. *Three lecture hours per week.* PREREQUISITE: CHEM 3411. [1908-1]

3601. Identification of Compounds. (1-3). Identification and separation of compounds, with emphasis on the various forms of spectroscopy and gas chromatography. Designed as a three-credit unit for students in the professional degree program, the course can be taken for reduced credit with the consent of the department chairman by those transferring into this degree program. *One lecture, six laboratory hours per week.* PREREQUISITE: CHEM 3301. COREQUISITE: CHEM 3312. [1905-1]

3602. Physical Measurements. (1-3). An introduction to quantitative measurement and data handling leading to intensive properties such as standard electrode potential, equilibrium constant, molecular weight, paramagnetic moment, etc. Designed as a three-credit unit for students in the professional degree program, the course can be taken for reduced credit with the consent of the department chairman by those transferring into this degree program. *Nine laboratory hours per week.* COREQUISITES: CHEM 3411, 3200. [1908-1]

3603. Synthesis, Characterizations, and Dynamics. (1-3). A laboratory for advanced students featuring a limited number of in-depth experiments involving product synthesis and identification, methods of reaction rate measurements, trace analysis, and digital electronics. Designed as a three-credit unit for students in the professional degree program, the course can be taken for reduced credit with the consent of the department chairman, by those transferring into this degree program. *Nine laboratory hours per week.* COREQUISITES: CHEM 3412, 4220. [1909-1]

4001. Environmental Chemistry. (3). An examination of the chemical phenomena occurring in the soil, the atmospheric and the aquatic environments. Emphasis will be placed on the interaction of man and his surroundings. *This course may not be counted toward a major in chemistry. Three lecture hours per week.* PREREQUISITE: junior standing and two semesters of natural science. [1905-1]

4111. Inorganic Chemistry. (3). (Formerly Chemistry 4210). A survey of theoretical and applied inorganic chemistry. Stress is placed on the relationship of structure and bonding to the properties of elements and compounds. Topics include introductory molecular orbital theory, coordination compounds and organometallics, ligand field theory, nonaqueous solvent systems, and reaction mechanisms. *Three lecture hours per week.* PREREQUISITE: CHEM 3412, or permission of the instructor [1906-1]

4199. Special Topics in Inorganic Chemistry. (1-6). Selected topics of current interest to undergraduates pursuing the B.S. degree. May be repeated for a maximum of 6 semester hours credit. PREREQUISITE: CHEM 4111. [1906-1]

4220. Instrumental Methods. (2). Advanced topics in electrometric, spectrometric, and chromatographic methods of collection and interpretation of data, and introduction to electronic and optical principles of chemical instrumentation, including automatic data acquisition. *Two lecture hours per week.* PREREQUISITE: CHEM 3200 or permission of instructor. [1909-1]

4299. Special Topics in Analytical Chemistry. (1-3). Selected topics of current interest to undergraduates pursuing the B.S. degree. May be repeated for a maximum of 6 semester hours credit. PREREQUISITE: CHEM 4220. [1909-1]

4399. Special Topics in Organic Chemistry. (1-3). Selected topics of current interest to undergraduates pursuing the B.S. degree. May be repeated for a maximum of 6 semester hours credit. PREREQUISITE: CHEM 3412. [1907-1]

4499. Special Topics in Physical Chemistry. (1-3). Selected topics of current interest to undergraduates pursuing the B.S. degree. May be repeated for a maximum of 6 semester hours credit. PREREQUISITE: CHEM 3412. [1908-1]

4501. Biochemistry Laboratory. (1). Investigation of physical and chemical properties of compounds of biological interest by common laboratory techniques. Assay of enzymes and enzyme kinetics are stressed. *Three laboratory hours per week.* PREREQUISITES: CHEM 3302 or 3601, and CHEM 3312. COREQUISITE: CHEM 4511. [0414-1]

4502. Biochemistry Laboratory. (1). A continuation of Chemistry 4501, with special emphasis on techniques of fractionating biological samples and measuring metabolic activity. *Three laboratory hours per week.* PREREQUISITES: CHEM 4501 and CHEM 4511. [0414-1]

4511. Biochemistry. (3). Chemistry of amino acids and proteins as related to their properties in biochemical systems. Enzymology, including kinetics and conformation studies. Coenzymes and their functions. The chemistry of carbohydrates, lipids and nucleotides. *Three lecture hours per week.* PREREQUISITE: CHEM 3312. COREQUISITE: CHEM 4501. [0414-1]

4512. Biochemistry. (3). A continuation of Chemistry 4511. Metabolism of carbohydrates, amino acids and nucleotides. Biochemistry of DNA and RNA, including their relationship to the biosynthesis of proteins. Metabolic control. *Three lecture hours per week.* PREREQUISITES: CHEM 4501 and CHEM 4511. [0414-1]

4599. Special Topics in Biochemistry. (1-3). Selected topics of current interest to undergraduates pursuing the B.S. degree. May be repeated for a maximum of 6 semester hours credit. PREREQUISITE: CHEM 3412. [0414-1]

4900. Chemical Literature. (1). Use of the chemical literature and the writing of technical reports. *One lecture hour per week.* PREREQUISITE: permission of instructor. [1905-1]

4910. Seminar. (1). Special projects, reports and investigation of current chemical literature. *One lecture hour per week.* PREREQUISITE: CHEM 4900. [1905-1]

4991. Chemical Research. (1). (See description under Chemistry 4993.) [1905-8]

4992. Chemical Research. (2). (See description under Chemistry 4993.) [1905-8]

4993. Chemical Research. (3). An introduction to basic research. The student collaborates with a staff member on a problem of mutual interest selected from the fields of analytical, inorganic, organic, and physical chemistry, and biochemistry. The student gains experience in effective laboratory techniques, critical experiment design, and scientific reporting. To receive credit toward a major in chemistry the student must complete three semester hours in these research courses. *Three to nine laboratory hours per week.* PREREQUISITE: CHEM 4220. [1905-8]

PHYSICAL SCIENCE (PSCI)

1031. Physical Science. (3). An introductory course, with emphasis on the fundamental principles and concepts of physical science. *Two lecture, two laboratory hours per week.* [1901-1]

1032. Physical Science. (3). A continuation of Physical Science 1031. *Two lecture, two lab-*

oratory hours per week. PREREQUISITE: PSCI 1031 or its equivalent. [1901-1]

4050. Glass Manipulation. (2). A laboratory course in the fundamentals of glass manipulation and the construction and repair of simple laboratory apparatus. *Six laboratory hours per week.* PREREQUISITE: senior standing. [1905-1]

4071. Physical Science for Elementary and Secondary School Teachers. (3). *Three lecture hours and laboratory experiments per week.* [1901-1]

Graduate courses in Chemistry and Physical Science: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.

CRIMINAL JUSTICE

PROFESSOR JOSEPH A. CANALE, *Director*

Room 405, Mitchell Hall

The Institute of Criminal Justice offers a major in Criminal Justice in three concentration areas: Police, Corrections, and General Criminal Justice. See p. 55. Five major criminal justice areas are indicated by the second digit of the course number, i.e. General = 1; Police = 2; Courts = 3; Corrections = 4; Law = 5.

E250 CRIMINAL JUSTICE (ICJ)

1100. Introduction to Criminal Justice. (3). An introduction to the American criminal justice system in its three dimensions, police, courts, and corrections, tracing its development from ancient and early English beginnings to the present time. *NOTE: Students who have received credit for ICJ 1520 will not be allowed credit for ICJ 1100.* [2105-1]

2221. Techniques of Criminal Investigation. (3). A description, analysis, and demonstration of historical and contemporary techniques and procedures utilized in the identification, apprehension, and presentation to Court of the criminal. *NOTE: Students who have received credit for ICJ 2523 will not be allowed credit for ICJ 2221.* [2105-1]

2222. Criminalistics. (3). Study of scientific procedures employed in criminal investigation, principally with respect to the location, development and use of physical evidence in criminal identification, including latent fingerprints, casting, document examination, and ballistics. *NOTE: Students who have received credit for ICJ 2524 will not be allowed credit for ICJ 2222.* PREREQUISITE: ICJ 2221. [2105-1]

3126. The Administration of Criminal Justice. (3). A study of criminal justice procedures for detection of crime and arrest of suspects through prosecution, adjudication and sentencing and imprisonment, to release and revocation. Policies and practices in criminal justice process. [2105-1]

3128. Research and Statistics in Criminal Justice. (3). Statistical and non-statistical approaches employed in contemporary criminal justice; review and analysis of current findings. *NOTE: Students who have received credit for ICJ 3528 or ICJ 2528 will not be allowed credit for ICJ 3128.* [2105-1]

3151. Socio-Medical Aspects of Criminal Justice. (3). The cultural aspects of crime, suicide, sexual deviancy with emphasis on the medical role of prevention, detection and treatment. An analysis of the role of the physician as an expert witness which will provide an insight into the contribution of the medical profession to criminal justice. *NOTE: Students who have received credit for ICJ 3551 will not be allowed credit for ICJ 3151.* [2105-1]

3152. Drug Addiction and Alcoholism. (3). Cultural and medical aspects of the use of alcohol

and various other drugs; consideration of the roles of law enforcement and corrections in these areas. *NOTE: Students who have received credit for ICJ 3552 will not be allowed credit for ICJ 3152.* [2105-1]

3226. Police Administration. (3). A comparative analysis of the problems, procedures, organization, and functions of effective police organization. *NOTE: Students who have received credit for ICJ 2526 or ICJ 3526 will not be allowed credit for ICJ 3226.* [2105-1]

3326. Court Administration. (3). A study of court operations including assignments and specialization of judges, document preparation and calendaring of cases, consideration of problems involving court personnel, funds and other property in the court's custody and maintaining a record of prisoners awaiting trial in criminal cases. [2105-1]

3424. American Penology. (3). Analysis of penal systems and reformatories in terms of organization, procedures, programs, and effectiveness. *NOTE: Students who have received credit for ICJ 4524 will not be allowed credit for ICJ 3424.* PREREQUISITE: ICJ 3521. [2105-1]

3426. Corrections Administration. (3). Principles of organization and management in corrections administration. Concepts of organizational behavior applied to prisons and other detention facilities and special programs in institutional management. PREREQUISITE: permission of instructor. [2105-1]

3520. Substantive Criminal Law. (3). Study of substantive criminal law, including common law sources and basic principles, types of offenses, responsibility, justification and excuse and related areas. *Students who have received credit for ICJ 4534 will not be allowed credit for ICJ 3520.* [2105-1]

3521. Criminal Procedure I. (3). General view of the criminal justice system as to application of principles of the U.S. Constitution, Bill of Rights, and the Fourteenth Amendment. Study of "due process of law" in federal and state prosecutions and application of the Exclusionary Rule of Evidence. *NOTE: Students who have received credit for ICJ 3534 or ICJ 4526 will not be allowed credit for ICJ 3521.* [2105-1]

3522. Criminal Procedure II. (3). A study of the application of various constitutional principles to investigative and prosecutive procedures of the criminal justice process, including arrest, search and seizure, interrogation, identification procedures and trial and post-trial proceedings. *NOTE: Students who have received credit for ICJ 4527 will not be allowed credit for ICJ 3522.* PREREQUISITE: ICJ 3521. [2105-1]

4100. Individual Directed Study in Criminal Justice. (1-4). Individual directed reading and research in special areas of interest in the field of criminal justice. *NOTE: Students who have received credit for ICJ 4560 will not be allowed credit for ICJ 4100.* PREREQUISITE: permission of Director. [2105-8]

4150. Internship in Criminal Justice. (1-4). Provides students with opportunity to gain experience in actual Criminal Justice settings. PREREQUISITE: Criminal Justice Major and senior standing. [2105-8]

4160. Seminar in Criminal Justice. (3). Seminar discussion of current criminal justice issues and problems, with review of professional literature in particular areas of criminal justice. May be repeated for a maximum of 6 hours credit. PREREQUISITE: Senior standing and invitation of criminal justice faculty. [2105-1]

4230. Police Planning. (3). An advanced study and analysis of plans relating to procedures, tactics, personnel, equipment, buildings, budget, and extra-departmental activities which the police administration encounters. *NOTE: Students*

who have received credit for ICJ 4530 will not be allowed credit for ICJ 4230. [2105-1]

4231. Public Relations and the Police. (3). The role of law enforcement personnel and administrators in police-community relations; the forms and possible approaches for improving communications with the public; the role of the police officer in the improvement of the public image. *NOTE: Students who have received credit for ICJ 4531 will not be allowed credit for ICJ 4231.* [2105-1]

4232. Police Operational Intelligence. (3). The collection, analysis, storage and retrieval of confidential and classified information. The techniques employed to gain information from informants and infiltrators. The techniques of detecting subversive operations and espionage activity directed at undermining national security. *NOTE: Students who have received credit for ICJ 4521 will not be allowed credit for ICJ 4232.* [2105-1]

4233. Organized Crime. (3). The nature, structure, characteristics, and investigation of syndicated crime; its impact on social and economic conditions in this country. *NOTE: Students who have received credit for ICJ 4535 will not be allowed credit for ICJ 4233.* [2105-1]

4425. Probation, Parole and Pardon. (3). Theories and practices of probation, parole and pardon. Administrative organization, feasibility and effectiveness of treatment of individuals released to the community. Study of pre-release, pre-hearing and pre-sentencing reports. *NOTE: Students who have received credit for ICJ 4525 will not be allowed credit for ICJ 4425.* PREREQUISITE: ICJ 3521. [2105-1]

4435. The Prison Society. (3). The prison's social structure and its relationship to the official world that contains it. Leadership, internal law, internal commerce, subgroups and homosexuality are discussed as are value changes, both transitional and permanent. A vocabulary in argot of the prisons is included. [2105-1]

4530. Principles of Evidence and Proof. (3). Consideration of rules of evidence and matters of proof affecting criminal investigation in investigatory and prosecutive stages of criminal justice. Examination from socio-legal aspect of basic rules of evidence, including hearsay rules, impeachment, materiality and relevancy, privilege, eyewitness identification and other. *NOTE: Students who have received credit for ICJ 4529 will not receive credit for ICJ 4530.* [2105-1]

4531. Civil Rights in the Criminal Justice Process. (3). Study of constitutional provisions, statutes and court decisions relating to civil rights as they apply to the various participants in the criminal justice process. *NOTE: Students who have received credit for ICJ 4533 will not be allowed credit for ICJ 4531.* PREREQUISITE: ICJ 3521. [2105-1]

4532. Constitutional Rights of Prisoners. (3). Study of the legal status of persons during pre-conviction and post-conviction confinement, including factors involving discipline, legal services, communication, medical aid, and related matters, with further consideration of civil and criminal liability of prison officials. *NOTE: Students who have received credit for ICJ 4523 will not be allowed credit for ICJ 4532.* PREREQUISITE: ICJ 3521. [2105-1]

4533. The Juvenile in the Criminal Justice Process. (3). A study of legal procedures in the various aspects of the juvenile process, including state and federal statute law, local methods and current constitutional procedural modifications. *NOTE: Students who have received credit for ICJ 4550 will not be allowed credit for ICJ 4533.* PREREQUISITE: ICJ 3521. [2105-1]

ENGLISH

PROFESSOR WILLIAM OSBORNE, *Chairman*

Room 467, Patterson Hall

Requirements for the major and minor in English are listed on page 55. All candidates for graduation at Memphis State University are required to complete English 1101 and 1102, or their equivalent, and any two of the following: English 2101, 2102, 2103, 2104, 2105, 2106 or their equivalent. These two sequences must be scheduled in consecutive semesters through the freshman and sophomore years, or until completed. English 1101 and 1102 must be taken in sequence; no credit will be allowed for English 1102 until 1101 has been completed successfully.

English Honors Program. Freshman students with high ACT scores are issued invitations to participate in the honors program, which is open to all qualified students during the freshman and sophomore years. During the junior and senior years, it is restricted to English majors; students are eligible to apply for admission to the program if they have a grade point average of 3.25 in their overall studies and in English. Honor students take special courses during the junior and senior years and write a senior research paper. At commencement they are awarded the special distinction "with honors in English." Details of the program are available at the English Department office.

E080 ENGLISH (ENGL)

0101. English as a Second Language. (1). Introduction to English. Concentration on aural-oral skills, with introduction to grammar and sentence structure. Two weekly audio-lingual laboratory sessions required. This course is open to non-native speakers of English only. Admission by placement only. [1508-1]

0102. English as a Second Language. (1-2). Intermediate Reading and Composition. Selected readings, a review of grammar, and introduction to the construction of paragraphs. Audio-lingual laboratory optional. This course is open to non-native speakers of English only. Admission by placement only. [1508-1]

0103. English as a Second Language. (1-3). Advanced Composition. Advanced readings, construction of essays, and study of mechanical writing skills. Audio-lingual laboratory optional. This course is open to non-native speakers of English only. [1508-1]

NOTE: The accumulation of three credit hours from the above courses and successful completion of 0103 will be considered the equivalent of ENGL 1101. Not more than 3 hours credit may be accumulated in 0101, 0102, 0103.

1101. English Composition. (3). Training in the writing of English sentences, paragraphs, and longer compositions related to the reading of essays and short fiction. [1501-1]

1102. English Composition and Analysis. (3). Further training in English composition related to an introductory study of poetry, drama, and the novel. PREREQUISITES: English 1101 or equivalent. [1501-1]

2101. English Literature. (3). Selected readings in English literature from the beginning through the eighteenth century, with attention to the development of literary forms and to the cultural context. Students will be taught composition and critical thinking beyond levels expected of freshmen. PREREQUISITES: English 1101 and 1102, or their equivalent. [1502-1]

2102. English Literature. (3). Selected readings in English literature from the Romantic period to the present, with attention to the development of literary forms and to the cultural context. Students will be taught composition and critical

thinking beyond levels expected of freshmen. **PREREQUISITES:** English 1101 and 1102, or their equivalent. [1502-1]

2103. Modern European Fiction. (3). Selected readings in British and Continental fiction of the nineteenth and twentieth centuries, with attention to the development of fictional forms and to the making of the modern European intellectual and literary tradition. Students will be taught composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** English 1101 and 1102, or their equivalent. [1502-1]

2104. Poetry and Drama. (3). Selected readings of poems and plays, with attention to the development of genres. Students will be taught composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** English 1101 and 1102, or their equivalent. [1502-1]

2105. American Fiction. (3). Selected readings in American fiction of the nineteenth and twentieth centuries, with consideration of the characteristic themes and techniques of both the American novel and the American short story. Students will be taught composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** English 1101 and 1102, or their equivalent. [1502-1]

2106. Contemporary Literature. (3). Selected readings in the poetry, drama, and fiction of America, Britain, and Europe, written since World War II. Special attention will be given to the development of literary modes and to the cultural context. Students will be taught composition and critical thinking beyond levels expected of freshmen. **PREREQUISITE:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2600. Special Topics in Literature. (3). Selected readings in literature, with attention to the development of themes and techniques. Students will be taught composition and critical thinking beyond levels expected of freshmen. **NOTE:** This course is an elective, and will not fulfill any specific English requirement. **PREREQUISITE:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2601. Introduction to Creative Writing. (3). A sophomore-level course designed to introduce students to the writing of fiction and poetry. This course is an elective, and will not fulfill any specific English requirement. **PREREQUISITES:** Grade of C or better in English 1101 or 1102, and the permission of the department registrar. [1507-1]

2602. Intermediate Composition. (3). The study and practice of writing essays and reports at levels beyond freshman English. The course will focus on the construction of clear, logical, well made expositions. **NOTE:** This course is an elective, and will not fulfill any specific English requirement. **PREREQUISITE:** ENGL 1101 and 1102, or their equivalents. [1501-1]

Note: No student may enroll for an upper-division English course until he has completed satisfactorily English 1101, 1102, or their equivalent, and any two of the following: English 2101, 2102, 2103, 2104, 2105, 2106, or their equivalent.

3100. Special Topics in Advanced English. (1-3). A course of study centering around a literary or linguistic topic or problem. Content of the course may vary from semester to semester. **PREREQUISITE:** Permission of the Department Chairman, or his representative. [1502-1]

3211. The Medieval Period. (3). Readings in English authors chiefly of the fourteenth and fifteenth centuries related to study of Middle English. [1502-1]

3212. The Sixteenth Century. (3). A study of the poetry and prose, chiefly non-dramatic, of the sixteenth and the early seventeenth century. [1502-1]

3213. The Seventeenth Century. (3). Selected poetry and prose from Donne and Bacon to the Restoration, studied in relation to political and intellectual events of the period. [1502-1]

3214. The Restoration and the Eighteenth Century. (3). A study of poetry and prose from 1660 to the Romantic Period, with attention to theoretical aspects of neoclassicism and the advent of romanticism. [1502-1]

3221. The Romantic Period. (3). A study of English Romantic poetry, with some attention to the prose written during the early decades of the nineteenth century. [1502-1]

3222. Victorian Poetry. (3). A study of major English poets writing between 1830 and 1900 with some consideration of the social, intellectual, and aesthetic interests of the period. [1502-1]

3223. Victorian Prose. (3). A study of English prose between 1830 and 1900 with emphasis on critical and philosophical works. [1502-1]

3224. The Twentieth Century. (3). A study of the major literary movements and techniques of English literature in the twentieth century. [1502-1]

3321. American Literature. (3). A survey of American literature from the beginning through the Romantic period. [1502-1]

3322. American Literature. (3). A survey of American literature from the advent of Realism to the present. [1502-1]

3341. The American Novel. (3). Reading of representative American novels of the nineteenth century with consideration of their relation to English and European work and to American developments in the genre. [1502-1]

3342. The American Novel. (3). Reading of representative American novels from 1900 to the present, with attention to relevant literary and cultural developments in Europe and America. [1502-1]

3411. European Literature. (3). Major literary works of western civilization from Homer through the Renaissance, read in English translation. [1503-1]

3412. European Literature. (3). Major literary works of western civilization from 1600 to the present, read in English translation. [1503-1]

3441. The Continental Novel. (3). Critical analysis and appreciation of representative novels chosen from the works of important European writers from 1850 to 1950. [1503-1]

3501. English Grammar. (3). A brief introduction to current linguistic scholarship concerning grammatical theory, especially the transformation generative description of the sounds, word structure, syntax, and semantics of English. *This course is neither a review of grammar nor a remedial course.* [1505-1]

3701. Theory and Practice in Literary Criticism. (3). An introduction to theory of literature related to exercises in practical criticism. [1501-1]

4001. Senior Honors Seminar I. (3). Intensive study of a problem in language or literature. Enrollment limited to English honors students. [1502-1]

4002. Senior Honors Seminar II. (3). Intensive study of a problem in language or literature. Enrollment limited to English honors students. [1502-1]

4231. Chaucer. (3). A study of Chaucer as a literary artist, including a reading of representative works and discussion of their philosophical and social context. [1502-1]

4232. Shakespeare's Tragedies. (3). A study of selected tragedies, with detailed critical examination of at least five. [1502-1]

4233. Shakespeare's Comedies and Histories. (3). A study of selected comedies and histories. [1502-1]

4234. Milton. (3). A study of Milton's development as a literary artist, with emphasis on his poetry but with some attention to his prose. [1502-1]

4241. The English Novel. (3). A study of major English novels from the Renaissance to the mid-nineteenth century. [1502-1]

4242. The English Novel. (3). A study of major English novels from the mid-nineteenth century to the present. [1502-1]

4251. English Drama. (3). A study of the development of the genre in England from medieval times to 1642. [1502-1]

4252. English Drama. (3). A study of English drama from 1660 to the present, with attention to developments in the genre. [1502-1]

4321. American Literature: Major Writers. (3). A study of seven major writers before 1850 including Poe, Hawthorne, Melville, Thoreau, and Emerson. [1502-1]

4322. American Literature: Major Writers. (3). A study of seven major writers after 1850 including Whitman, Dickinson, James, Twain, and Eliot. [1502-1]

4323. Southern Literature. (3). A study of Southern literature from its beginning to the present with emphasis on twentieth-century authors. [1502-1]

4351. American Drama. (3). The development of American drama as a literary form studied in relation to the English and European tradition and to currents in American thought. [1502-1]

4371. Black American Literature. (3). A study of Black American writing, from its beginning to the present, with emphasis upon major authors. [1502-1]

4423. Contemporary Poetry. (3). A study of British and American poetry from about 1900 to the present. [1502-1]

4424. Contemporary Fiction. (3). A study of English and American fiction from about 1900 to the present. [1502-1]

4461. Biblical Literature. (3). A study of selected books from the Old and New Testaments with emphasis on their literary value and with consideration of the place of the Bible in world literature. [1503-1]

4501. History of the English Language. (3). Study of the relationship of English to other Indo-European languages; of etymology and the effects of word-borrowing, word-formation, and semantic change on English vocabulary; and of the development of English sounds, inflections, and syntax. [1505-1]

4601. Creative Writing. (3). Discussion of technique of fiction and verse, analysis of models, and criticism of student work. **PREREQUISITE:** permission of instructor. [1507-1]

4602. Advanced Composition and Rhetoric. (3). A study of the rhetorical principles involved in writing clear, effective expository prose, with the emphasis placed upon the application of these principles to the student's own writing. Analysis both of readings and of student writing. Not designed for remedial purposes. [1501-1]

4603. Advanced Creative Writing. (3). Continued discussions of the techniques of fiction and poetry, analysis of models, and criticism of student work. **PREREQUISITE:** ENGL 4601. [1507-1]

Graduate courses in English: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

FOREIGN LANGUAGES

PROFESSOR FRANKLIN O. BRANTLEY,
Chairman

Room 375A, Dunn Mathematics/Foreign Languages
Building

The Department of Foreign Languages offers majors and minors in French, German, Latin, Russian, and Spanish; a minor is also offered in Greek and Italian. Requirements are listed on page 55. Requirements for the major or minor in Comparative Literature are listed on page 54. Details for specific requirements in foreign languages for the various degrees offered by the University are explained on page 51.

One hour a week in the language laboratory (two half-hour sessions) is required for all 1101, 1102, and 2201 courses in the modern languages.

E110 CLASSICS (CLAS)

3021. Latin and Greek Etymology. (3). Origin and derivation of words, especially those used in medicine and science. This course is given in English and is open to all students without prerequisite. It may not be used to satisfy any part of the foreign language requirements nor does it apply toward a major in classical languages. [1101-1]

3412. Roman Culture. (3). A study based on literary sources, of public and private life, including such topics as family life, slavery, religion, medicine, law, and technology. This course may not be used to satisfy any part of the Foreign Language requirement nor any part of a major in classical languages. Recommended for teachers. [1109-1]

4791. Special Studies in Classics. (1-3). A study of selected topics in classical literature and civilization. May be repeated for a maximum of six hours credit. PREREQUISITE: permission of the chairman and instructor. [1199-8]

E140 GREEK (GREK)

1101. Elementary Greek. (3). Elements of Greek grammar and syntax; practice in reading and translation. [1110-1]

1102. Elementary Greek. (3). Completion of basic grammar and syntax, with additional readings. PREREQUISITE: GREK 1101 or the equivalent. [1110-1]

2200. Intermediate Greek. (3). Grammar review and reading of selections. [1110-1]

2201. Xenophon. (3). Readings and interpretation of Xenophon's *Anabasis*. PREREQUISITE: GREK 1102 or the equivalent. [1110-1]

3111. Herodotus. (3). Reading and analysis of Books VI-VIII of Herodotus' *History*. [1110-1]

3911. Plato's *Apology*, *Crito*. (3). Reading and analysis of the dialogues of Plato which give a prelude to the death of Socrates. [1110-1]

E170 LATIN (LATN)

1101. Elementary Latin. (3). Elements of grammar; practice in Latin composition and translation. [1109-1]

1102. Elementary Latin. (3). Completion of elementary Latin grammar, with additional readings. PREREQUISITE: LATN 1101 or the equivalent. [1109-1]

2201. Intermediate Latin. (3). A review of basic Latin grammar with reading selections from *The Golden Fleece* and Roman history. PREREQUISITE: LATN 1102 or the equivalent. [1109-1]

2202. Intermediate Latin. (3). A continuation of Latin 2201, with more advanced readings from major authors. PREREQUISITE: LATN 2201 or the equivalent. [1109-1]

3111. Roman Historians. (3). Readings and analysis of selections from Caesar, Livy, Tacitus, and Suetonius, with emphasis on the nature of Roman historiography. [1109-1]

3811. Ovid. (3). Reading and analysis of the myths in Ovid's *Metamorphoses*. [1109-1]

3912. Cicero. (3). Reading and analysis of *De Amicitia* and *De Senectute*. [1109-1]

4411. Roman Letter Writers. (3). Reading and analysis of Cicero's *Letters*. [1109-1]

4611. Roman Satire. (3). Reading and analysis of Juvenal's *Satires*. [1109-1]

4711. Elegy, Lyric, and Epigram. (3). Reading and analysis of selections from Catullus, Horace, Tibellus, Propertius, and Martial. [1109-1]

E090 COMPARATIVE LITERATURE (COLI)

The following courses are given in English and are open to all students without prerequisite. They may not be used to satisfy any part of the foreign language requirement nor do they apply toward a major or minor in any of the foreign languages. They may count toward a major or minor in Comparative Literature.

3411. European Literature. (3). Major literary works of western civilization from Homer through the Renaissance, read in English translation. (Same as ENGL 3411.) [1503-1]

3412. European Literature. (3). Major literary works of western civilization from 1600 to the present, read in English translation. (Same as ENGL 3412.) [1503-1]

3413. Survey of Greek Literature. (3). Analysis of content and characteristics of the various literary types including tragedy, comedy, epic poetry, lyric poetry, and historical prose from Homer to Lucan. [1503-1]

3414. Survey of Roman Literature. (3). History and character of the literature of the Roman Republic and early Empire. Selections from Plautus through Juvenal. Analysis of individual works, especially in relation to the development of the genre. [1503-1]

3441. Russian Literature of the Nineteenth Century. (3). An introduction to the authors of the Golden Age of Russian Literature, with representative works from Pushkin, Lermontov, Gogol, and Turgenev. (Same as RUSS 3441 but in English translation.) [1503-1]

3442. Russian Literature of the Nineteenth Century. (3). Readings in representative works of Dostoevski, Tolstoi, Chekov, and Gorki. (Same as RUSS 3442 but in English translation.) [1503-1]

4423. Cervantes. (3). A study of *Don Quixote* and the *Novelas ejemplares*. (Same as SPAN 4423 but in English translation.) [1503-1]

4431. Contemporary Spanish Prose. (3). A study of Spanish prose from the Generation of 1898 to the present. (Same as SPAN 4431 but in English translation.) [1503-1]

4432. The Contemporary French Novel. (3). A general survey of the twentieth century French novel, treating the works of such authors as Proust, Gide, Mauriac, Malraux, Sartre, Camus, Maurois, and others. (Same as FREN 4432 but in English translation.) [1503-1]

4441. Dante. (3). A study of the *Vita Nuova* and the *Divina Commedia*. (Same as ITAL 4441 but in English translation.) [1503-1]

4461. Twentieth Century German Prose and Poetry. (3). A study of works of Hesse, Thomas Mann, Kafka, Rilke, Frisch, and Grass. (Same as GERM 4461 but in English translation.) [1503-1]

4462. Twentieth Century German Drama. (3). Study of plays of Gerhart Hauptmann, the German Expressionists, Brecht, Frisch, Dürrenmatt, and Peter Weiss. (Same as GERM 4462 but in English translation.) [1503-1]

4791. Studies in Comparative Literature. (3). A study of selected authors, works, or literary problems. May be repeated for credit up to a maximum of six (6) hours. A maximum of three (3) hours credit is accepted toward the completion of the requirements for the Comparative Literature major or minor. PREREQUISITE: Joint consent of instructor and the director of the Comparative Literature program. [1503-1]

E210 LANGUAGES (LANG)

1701-1702. Special Studies in Modern Foreign Languages. (3, 3). This course is designed to provide freshman-level instruction in languages not regularly offered by the Department of Foreign Languages; classes will be offered if and when sufficient demand exists and instructors are available. Although credit earned in these courses may be used to satisfy the foreign language requirements for degrees, students should be aware of these two important points: (1) the foreign language requirement for degrees in The College of Arts and Sciences specifies that all twelve semester hours (or six for some professional degrees) must be in the same language; (2) unless the demand is sufficient and unless teachers are available, the University cannot offer enough courses to enable the student to meet these requirements. [1101-1]

2701-2702. Special Studies in Modern Foreign Languages. (3, 3). Continuation of Language 1701-1702. Will be offered provided instructor is available and there is sufficient student enrollment. [1101-1]

E120 FRENCH (FREN)

1101. Elementary French. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1102-1]

1102. Elementary French. (3). A continuation of French 1101 with reading selections of increasing difficulty. PREREQUISITE: FREN 1101 or the equivalent. [1102-1]

2201. Intermediate French. (3). A comprehensive review of French grammar, exercises in writing, and readings in French literature and culture. PREREQUISITE: FREN 1102 or the equivalent. [1102-1]

2202. Intermediate French. (3). A continuation of French 2201, with more advanced readings. PREREQUISITE: FREN 2201 or the equivalent. [1102-1]

3301. Conversation and Composition. (3). PREREQUISITE: FREN 2202 or the equivalent. [1102-1]

3302. Conversation and Composition. (3). PREREQUISITE: FREN 3301 or permission of the instructor. [1102-1]

3401. French Civilization. (3). The culture of France as reflected in its history, social institutions, art, and music. [1102-1]

3411. Survey of French Literature. (3). Introduction to the civilization of France through lectures and the readings of representative literary works and writers from the beginnings through the eighteenth century. [1102-1]

3412. Survey of French Literature. (3). A continuation of the study of French civilization through lectures and reading of representative works of the major writers in the nineteenth and twentieth centuries. [1102-1]

4301. French Phonetics. (3). The theory and practice of French sounds; especially recommended for teachers of French. PREREQUISITE: Three years of college French or permission of the instructor. [1102-1]

4305. French Stylistics. (3). Translations of English prose into French with an emphasis on style and grammar. Recommended for all French majors. PREREQUISITE: FREN 3302 or permission of the instructor. [1102-1]

4411. Literature Before 1600. (3). A survey of representative masterpieces of the Middle Ages and the Renaissance. Readings from the Middle Ages include *La Chanson de Roland*, *Yvain*, the *lais* of Marie de France, the poetry of Villon, and selections from the *chroniqueurs*. Readings from the Renaissance include selections from *Gargantua et Pantagruel*, the *Essais* of Montaigne, the *Defense et Illustration de la langue française*, and the poetry of Marot, Sceve, da Bellay, and Ronsard. [1102-1]

4412. The Seventeenth Century. (3). A survey of classical literature with emphasis on the theatre of Corneille, Molière, and Racine and their relationship to the critical theories of Boileau. Selected readings from Mme de La Fayette, La Fontaine, Mme de Sevigné, La Bruyère, and La Rochefoucauld. NOTE: *Students who have received credit for French 3421, 3422 will not be allowed credit for French 4412.* [1102-1]

4422. Liberal Ideas in the Eighteenth Century. (3). Study of philosophical thought from the revocation of the Edict of Nantes to the French Revolution with attention given to Bayle, Montesquieu, Voltaire, Diderot, and Rousseau. [1102-1]

4431. The Nineteenth Century French Novel. (3). The French novel from the Revolution to the twentieth century, treating the movements of Romanticism, Realism, and Naturalism as they are reflected in the works of such authors as Balzac, Stendhal, Flaubert, and Zola. [1102-1]

4432. The Twentieth Century French Novel. (3). A survey of the twentieth-century French novelists, including Proust, Gide, Mauriac, Malraux, Sartre, Camus, Robbe-Grillet. [1102-1]

4451. The Nineteenth Century French Drama. (3). French Drama from 1800 to 1897, including Hugo, Vigny, Musset, Scribe, Augier, Labiche, Dumas, Cailhac, Becque, Maeterlinck, and Rostand. [1102-1]

4452. Twentieth Century French Drama. (3). Principal dramatists of the present century, including Claudel, Giraudoux, Sartre, Camus, Anouilh, Mithran, Beckett, Ionesco, and others. [1102-1]

4471. Nineteenth Century Poetry. (3). French poetry from Lamartine to Mallarmé. [1102-1]

4501. Applied French Linguistics. (3). Application of modern linguistic theories to learning French. PREREQUISITE: French 3301. [1102-1]

4781. History of Criticism of French Literature. (3). A study of the main theories of literary criticism from the Renaissance through the 20th Century, with an introduction to methods of research. [1102-1]

4791. Special Studies in French Literature. (3). A study of selected topics in French literature. May be repeated for a maximum of 6 hours credit. PREREQUISITE: permission of the chairman and instructor. [1102-1]

Graduate courses in French: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

E130 GERMAN (GERM)

1101. Elementary German. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1103-1]

1102. Elementary German. (3). A continuation of German 1101, with reading selections of increasing difficulty. PREREQUISITE: GERM 1101 or equivalent. [1103-1]

2201. Intermediate German. (3). A comprehensive review of German grammar, exercises in writing, and readings in German literature and culture. PREREQUISITE: GERM 1102 or equivalent. [1103-1]

2202. Intermediate German. (3). A continuation of German 2201, with more advanced readings. PREREQUISITE: GERM 2201 or equivalent. [1103-1]

2203. Scientific German. (3). A continuation of 2201, with readings in science areas. PREREQUISITE: GERM 2201 or equivalent. [1103-1]

3301. Conversation and Composition. (3). PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3302. Conversation and Composition. (3). PREREQUISITE: GERM 3301, or permission of the instructor. [1103-1]

3410. Introduction to German Literature and Culture, Part I. (3). From the beginnings to 1600. PREREQUISITE: GERM 2202 or the equivalent. [1103-1]

3411. Introduction to German Literature and Culture, Part II. (3). From the Baroque period through the Romantic period (1600-1830). PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3412. Introduction to German Literature and Culture, Part III. (3). From the *Biedermeier* period to the present day (1830-today). PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3471. German Poetry. (3). A survey of the lyric and ballad from the twelfth to the twentieth centuries, with readings from Minnesang, the Baroque, Enlightenment, *Sturm und Drang*, Classicism, Romanticism, Realism, and the modern period. PREREQUISITES: Two courses from the group GERM 3301, 3410, 3411, 3412; or permission of the instructor. [1103-1]

4443. Major German Writers of the Twentieth Century. (3). Study of selected works of Hesse, Thomas Mann, Kafka, Frisch, Dürrenmatt, Brecht, and Böll. PREREQUISITE: Two courses from the group GERM 3301, 3410, 3411, 3412; or permission of the instructor. [1103-1]

4445. The Age of Goethe. (3). Study of the development of German Classicism. Reading of major works of Goethe and Schiller. Selected readings from other important writers of the period. PREREQUISITE: Two courses from the group GERM 3301, 3410, 3411, 3412; or permission of the instructor. [1103-1]

4451. The German Drama. (3). A survey of dramatic literature from the sixteenth to the twentieth centuries, with readings from the Reformation, the Baroque, Enlightenment, *Sturm und Drang*, Classicism, Romanticism, Realism, and the modern period. PREREQUISITES: Two courses from the group GERM 3301, 3410, 3411, 3412; or permission of the instructor. [1103-1]

4465. German Narrative Prose. (3). Reading of major prose writing from Romanticism to the present. Special emphasis will be placed on the *Novelle*. PREREQUISITES: Two courses from the group GERM 3301, 3410, 3411, 3412; or permission of the instructor. [1103-1]

4501. Applied German Linguistics. (3). Application of modern linguistic theories to learning German. PREREQUISITES: Two courses from the group GERM 3301, 3410, 3411, 3412, or permission of the instructor. [1103-1]

4511. The German Language: Development and Structure. (3). Study of the German language in its various stages of development. PREREQUISITE: GERM 3301 or 3302; or permission of the instructor. [1103-1]

4791. Special Studies in German Literature. (3). A study of selected topics in German literature. May be repeated for a maximum of 6 hours credit. PREREQUISITE: permission of chairman and instructor. [1103-1]

E160 ITALIAN (ITAL)

1101. Elementary Italian. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1104-1]

1102. Elementary Italian. (3). A continuation of Italian 1101, with selections of increasing difficulty. PREREQUISITE: ITAL 1101 or the equivalent. [1104-1]

2201. Intermediate Italian. (3). A comprehensive review of Italian grammar, exercises in writing, and reading in Italian literature and culture. PREREQUISITE: ITAL 1102 or the equivalent. [1104-1]

2202. Intermediate Italian. (3). A continuation of Italian 2201, with more advanced readings. PREREQUISITE: ITAL 2201 or the equivalent. [1104-1]

3411. Survey of Italian Literature. (3). The development of the Florentine dialect as the literary language of Italy. The study of representative writers from the thirteenth to the eighteenth century. Dante. PREREQUISITE: ITAL 2202 or permission of the instructor. [1104-1]

3412. Survey of Italian Literature. (3). A study of outstanding writers of the eighteenth, nineteenth, and twentieth centuries, with special attention to Goldoni, Alfieri, Leopardi, Manzoni, Pirandello, and Benedetto Croce. PREREQUISITE: ITAL 3411 or permission of the instructor. [1104-1]

4421. The Sixteenth Century. (3). Literature of the Italian Renaissance: Ariosto, Machiavelli, Cellini, Sasso, and others. [1104-1]

4441. Dante. (3). A study of the *Vita Nuova* and the *Divina Commedia*. [1104-1]

E180 PORTUGUESE (PORT)

1101. Elementary Portuguese. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1199-1]

1102. Elementary Portuguese. (3). A continuation of Portuguese 1101, with reading selections of increasing difficulty. PREREQUISITE: PORT 1101 or the equivalent. [1199-1]

2201. Intermediate Portuguese. (3). A comprehensive review of Portuguese grammar with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Portuguese and Brazilian literature. PREREQUISITE: PORT 1102 or the equivalent. [1199-1]

2202. Intermediate Portuguese. (3). A continuation of Portuguese 2201 with further readings in Portuguese and Brazilian literature; conversation and composition designed to enlarge the student's vocabulary and improve his pronunciation. PREREQUISITE: PORT 2201 or the equivalent. [1199-1]

3511. Masterpieces of Brazilian Literature. (3). The reading in Portuguese and analysis of representative works of leading Brazilian authors such as José de Alencar, Aluizio Azevedo, Machado de Assis, Olavo Bilac, Manoel Bandeira, Gilberto Freyre, and Erico Veríssimo. PREREQUISITE: PORT 2202 or the equivalent. [1199-1]

E190 RUSSIAN (RUSS)

1101. Elementary Russian. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1106-1]

1102. Elementary Russian. (3). A continuation of Russian 1101, with reading selections of increasing difficulty. PREREQUISITE: RUSS 1101 or the equivalent. [1106-1]

2201. Intermediate Russian. (3). A comprehensive review of Russian grammar, exercises in writing, and readings in Russian literature and culture. PREREQUISITE: RUSS 1102 or the equivalent. [1106-1]

2202. Intermediate Russian. (3). A continuation of Russian 2201, with more advanced readings. PREREQUISITE: RUSS 2201 or the equivalent. [1106-1]

3301. Conversation and Composition. (3). PRE-REQUISITE: RUSS 2202 or the equivalent.

[1106-1]

3302. Conversation and Composition. (3). PRE-REQUISITE: RUSS 3301 or permission of the instructor. [1106-1]

3411. Survey of Russian Literature. (3). Survey of Russian literature from the earliest chronicles, folktales, and legends through the classical period to the end of the eighteenth century.

[1106-1]

3412. Survey of Russian Literature. (3). Survey of Russian literature from the beginning of the nineteenth century to the Soviet period. Authors include Pushkin, Gogol, Lermontov, Turgenev, Doestoevski, Tolstoi, and Chekhov. [1106-1]

3441. Russian Literature of the Nineteenth Century. (3). An introduction to the authors who herald the *Golden Age* of Russian Literature, with representative works from Pushkin, Lermontov, Gogol, and Turgenev. [1106-1]

3442. Russian Literature of the Nineteenth Century. (3). Readings in representative works of Doestoevski, Tolstoi, Chekhov, and Gorki.

[1106-1]

3443. Russian Literature of the Twentieth Century. (3). An introduction to the works of Bunin, Zamiatin, Bely, A. Tolstoy, Scholochov, and Solzhenitsyn. [1106-1]

3444. Russian Literature of the Twentieth Century. (3). An introduction to works which herald the *Silver Age* of Russian poetry. Authors include Blok, Brusov, Achmatova, Zwetaeva and Mandelstam. [1106-1]

4309. The Art of Translating Russian. (3). Translations of material from Russian to English in an approved content area. PREREQUISITE: RUSS 2202 or the equivalent. [1106-1]

E200 SPANISH (SPAN)

1101. Elementary Spanish. (3). Elements of grammar and pronunciation, with the reading of simple selections. [1105-1]

1102. Elementary Spanish. (3). A continuation of Spanish 1101. PREREQUISITE: SPAN 1101 or the equivalent. [1105-1]

2201. Intermediate Spanish. (3). A comprehensive review of Spanish grammar, exercises in writing, and readings in Hispanic literature and culture. PREREQUISITE: SPAN 1102 or the equivalent. [1105-1]

2202. Intermediate Spanish. (3). A continuation of Spanish 2201, with more advanced readings. PREREQUISITE: SPAN 2201 or the equivalent. [1105-1]

3301. Conversation and Composition. (3). PRE-REQUISITE: SPAN 2202 or the equivalent.

[1105-1]

3302. Conversation and Composition. (3). PRE-REQUISITE: SPAN 3301 or permission of the instructor. [1105-1]

3411. Survey of Spanish Literature. (3). Formation of the Spanish language and literature, with readings of representative works to illustrate principal periods and genres from the beginnings to 1700. [1105-1]

3412. Survey of Spanish Literature. (3). A continuation of Spanish 3411, covering Neoclassicism, Romanticism, *costumbrismo*, Realism, Naturalism, and the contemporary period.

[1105-1]

3511. Survey of Spanish American Literature. (3). A survey of Spanish American literature from the Colonial Period to the end of Romanticism. [1105-1]

3512. Survey of Spanish American Literature. (3). A survey of Spanish American literature from the beginnings of Modernism to the present. [1105-1]

3611. Survey of Spanish Civilization. (3). Spain and its people; highlights of Spanish civilization as revealed in the fields of literature, music, painting, and architecture. [1105-1]

3612. Survey of Latin American Civilization. (3). Latin America and its people; highlights of Latin American civilization as revealed in the fields of literature, music, painting, and architecture.

[1105-1]

4301. Spanish Phonetics. (3). The sounds and intonation patterns of Spanish: analysis and practice; comparison with the sounds and intonation patterns of English. Especially recommended for teachers of Spanish. [1105-1]

4302. Advanced Grammar. (3). A thorough and systematic presentation of Spanish grammar. Recommended for all Spanish majors. PRE-REQUISITE: SPAN 3301 and 3302. [1105-1]

4391. Topics in Spanish Language. (3). Selected problems in Spanish and Spanish American dialectology and usage; topics of current concern in Spanish linguistics; individual or group projects involving field techniques. May be repeated for a maximum of six (6) semester hours credit, provided the same topic is not repeated. PREREQUISITES: SPAN 3301 and 3302 or permission of instructor. [1105-1]

4421. The Golden Age. (3). A study of Spanish lyric poetry and drama of the sixteenth and seventeenth centuries. PREREQUISITES: SPAN 3411 and 3412, or permission of the instructor. [1105-1]

4422. The Golden Age. (3). A study of Spanish prose of the sixteenth and seventeenth centuries. PREREQUISITES: SPAN 3411 and 3412, or permission of the instructor. [1105-1]

4423. Cervantes. (3). A study of *Don Quixote* and the *Novelas ejemplares*. [1105-1]

4431. Contemporary Spanish Prose. (3). A study of Spanish prose from the Generation of 1898 to the present. PREREQUISITES: SPAN 3411 and 3412, or permission of the instructor.

[1105-1]

4432. Contemporary Spanish Poetry and Drama. (3). A study of Spanish poetry and drama from the Generation of 1898 to the present. PREREQUISITES: SPAN 3411 and 3412, or permission of the instructor. [1105-1]

4501. Applied Spanish Linguistics. (3). Application of linguistic theory to the learning and teaching of Spanish; recommended for teachers. PREREQUISITE: SPAN 4301 or permission of instructor. [1105-1]

4532. Spanish American Drama. (3). Development of the drama in Spanish America, with an emphasis on the twentieth century. PREREQUISITES: SPAN 3411-3412 or one of Spanish 3511, 3512. [1105-1]

4561. Spanish American Prose Fiction I. (3). Development of the novel and short story in Spanish America from the beginnings through the Mexican Revolution. PREREQUISITE: SPAN 3511. [1105-1]

4562. Spanish American Prose Fiction II. (3). The Spanish American novel and short story from the Mexican Revolution to the present. PREREQUISITE: SPAN 3512. [1105-1]

4791. Special Studies in Hispanic Literature. (3). A study of selected topics in Hispanic Literature. May be repeated for a maximum of 6 hours credit. PREREQUISITE: permission of chairman and instructor. [1105-1]

Graduate courses in Spanish: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

GEOGRAPHY

PROFESSOR PAUL HARDEMAN SISCO,
Chairman

Room 115, Johnson Hall

Requirements for the major and minor in geography are listed on page 55.

IMPORTANT NOTE: The prerequisite for all 3000 and 4000 level courses is either junior standing (a minimum of 55 semester hours credit) or the permission of the instructor.

E220 GEOGRAPHY (GEOG)

1101. Introduction to Earth Science I. (4). An introductory study of earth-sun and earth-moon relations, the oceans and their movements, weather, and climate. *Three lecture, two laboratory hours per week.* [1917-1]

1102. Introduction to Earth Science II. (4). An introductory study of maps as a basic tool in understanding earth phenomena, landforms, the structure and composition of rocks, soils, and their capabilities. *Three lecture, two laboratory hours per week.* [1917-1]

2301. A Survey of World Regions I. (3). An introduction to the essential elements of geographical analysis to establish a framework for understanding many of the complexities of the contemporary world. A survey will be made of those regions of the world generally referred to as "developing" and will encompass most of Africa, Asia, and Latin America. [2206-1]

2311. A Survey of World Regions II. (3). This course is a continuation of the approach developed in 2301. The emphasis however, will be on the more highly "developed" areas, including Europe, North America, and the Soviet Union. [2206-1]

3200. Peoples and Cultures of the World (Same as ANTH 3200). (3). Survey of the major ethnographic areas and of selected cultures of the world. [2202-1]

3201. Economic Geography I. (3). An analysis of the spatial characteristics of economic systems which are directly related to the physical environment, with a particular emphasis on agricultural systems. [2206-1]

3211. Economic Geography II. (3). An analysis of the spatial characteristics of manufacturing, trade, and service systems as they relate to the physical environment and their relationship to urban development. [2206-1]

3301. North Africa and the Middle East. (3). A study in areal differentiation based on the analysis of co-varying phenomena, physical and non-physical, in a region inhabited by people who are predominantly Moslem. [2206-1]

3302. Africa South of the Sahara. (3). An analysis of the resources and regional complexities with stress on the significance of the relationship between cultural and physical phenomena to economic and political development. [2206-1]

3313. Anglo-America (3). An analytical study of the cultural-physical complex in the western United States, Canada, and Alaska. [2206-1]

3314. Central America and the Caribbean. (3). A study of the regions and resources of Central America and the West Indies as they relate to present and potential economic development.

[2206-1]

3315. South America. (3). An analysis of the regional economies, resources, and trade in the continent, with stress upon the changing significance of the landscape as related to national and international problems. [2206-1]

3401. Historical Geography of Europe. (3). An analysis of human occupancy in Europe during selected periods, with a study of significant relationships between the physical and cultural features. [2206-1]

3402. Historical Geography of the United States. (3). A study of the geography of selected areas of the United States for sequent periods of their occupancy by the white man. [2206-1]

3411. Principles of Conservation. (3). Current problems and responsibilities relating to the conservation of soil, minerals, forests, water, wild life, and the natural beauty of the earth. [2206-1]

3501. Map Intelligence. (3). A comprehensive study of maps as geographic tools that enable the user to gain knowledge concerning the earth through map reading and map interpretation and to make an intelligent use of such map information. [2206-1]

3502. Map Projections: Analysis and Construction. (3). Analysis and construction of a select number of projections for depicting the earth's curved surface as transformed to a plane surface to provide an accurate framework for displaying particular distribution on a map. [2206-1]

4111. Earth Science I. The Atmosphere. (3). An analytical study of the physical processes underlying the behavior and responses of the atmosphere and the application of this general body of knowledge to an understanding of the relationship of man to this important element of his environment. [1917-1]

4121. Earth Science II. The Earth. (3). An analytical study of land forms, their changes, and their uses to man. [1917-1]

4122. Earth Science III. The Soil. (3). An analytical study of soils to include their physical, chemical, and biological qualities, and their classes, uses, and measures of conservation. [1917-1]

4131. Earth Science IV. The Oceans. (3). An analytical study of the oceans to include their physical, chemical, and biological qualities; their movements, resources, climatic influences, and importance for transportation. [1917-1]

4304. Western Europe. (3). A geographic analysis of the lands west of the Iron Curtain. [2206-1]

4305. The Soviet Realm. (3). A regional analysis of the Soviet Union and its satellites. [2206-1]

4306. The Far East. (3). A consideration of the significance of regional differences in Japan, China, and India, and a brief survey of the remaining areas. [2206-1]

4314. Geography of Mexico. (3). A comprehensive and systematic survey of the geographic regions, resources, and potentialities of Mexico and their significance in the economic and political affairs of Latin America and the world. [2206-1]

4315. Geography of Brazil. (3). A comprehensive and systematic survey of the geographic regions, resources, and potentialities of Brazil and their significance in the economic and political affairs of Latin America and the world. [2206-1]

4316. The South. (3). A specialized study of selected regions in the South with emphasis on changes and trends in the cultural-physical complex. [2206-1]

4317. Tennessee. (3). A comparison of the human-use, political, and physical regions of the state. [2206-1]

4421. Political Geography. (3). An introduction to the study of the spatial distribution, characteristics, and interaction of political processes and systems. Individual student study of selected problems will be required. [2206-1]

4431. Urban Geography. (3). A study of the allocation of land for urban uses; the adjustments and adaptations to existing physical phenomena; the patterns, functions, and forms of specific urban land areas; and some of the continuous problems of urban development and growth. [2206-1]

4501. Map Design and Reproduction. (3). The planning, construction, and reproduction of maps, which through symbolic language, present information about the earth's patterns in a most effective manner. [1999-1]

4502. Computer Mapping. (3) Instruction in the use of computer mapping programs as effective techniques for the visual presentation of a wide variety of data. [1999-1]

4511. Remote Sensing of the Environment. (3). A survey of the art and science of obtaining geographic information about the earth's landscapes by means of aerial photography and satellite imagery. [2206-1]

4521. Quantitative Methods. (3). An introduction to quantitative methods in geographic analysis. [0701-1]

4611. Field Study. (6). A comparative study of selected regions of the world, including library study and oral and written reports. Repeatable up to maximum of six hours. [2206-1]

Graduate courses in Geography: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

HISTORY

PROFESSOR AARON M. BOOM, *Chairman*

Room 100, Mitchell Hall

Requirements for the major and minor in history are listed on page 55. All candidates for graduation at Memphis State University are required to complete History 2601 and 2602; these courses are not open to students with fewer than 25 semester hours credit. Courses numbered above 3000 are not open to students with fewer than 55 semester hours credit.

History Honors Program. History majors who have attained junior standing, have completed successfully six semester hours of lower division history, and have maintained a grade point average of 3.25 in overall studies and in any history course taken, are eligible for admission to the honors program in history. Students admitted to the program will take 12 hours of honors work in history, including History 4003 and History 4996, during their junior and senior years. Those who successfully complete the program and the regular B.A. requirements will be awarded the degree of Bachelor of Arts with Honors in History. A detailed description of the program, together with application forms for admission, may be obtained in the History Department office.

E240 HISTORY (HIST)

1301. The Development of World Civilization I. (3). Especially recommended for freshmen, this course traces the forms of civilization from their ancient beginnings through the seventeenth century. [2205-1]

1302. The Development of World Civilization II. (3). Especially recommended for freshmen, this course traces the forms of civilization from the beginning of the eighteenth century to the present. [2205-1]

2601. The United States to 1877. (3). A survey of the United States from discovery to the end of political reconstruction. [2205-1]

2602. The United States since 1877. (3). A survey of the United States from 1877 to the present. [2205-1]

3121. England Before 1714. (3). A survey of the political, constitutional, cultural, social, and economic development of England from the coming of the Anglo-Saxons until the Hanoverian accession in 1714. [2205-1]

3122. England Since 1714. (3). A survey of the development of England's democratic govern-

ment, considering economic, social, intellectual, diplomatic, and imperial affairs. [2205-1]

3200. History of Spain. (3). A survey of Spanish institutions, culture, and politics from ancient times to the present. [2205-1]

3211. Colonial Latin America. (3). A survey of political, economic, social and cultural development in Latin America from the pre-conquest era to 1808. [2205-1]

3212. The Latin American Nations. (3). A survey of the major political, economic, and social trends in Latin America since 1808. Emphasis is placed on Argentina, Brazil, Chile, and Mexico. [2205-1]

3231. History of the Spanish Borderlands. (3). A study of northern Mexico and areas of the southern United States originally colonized by Spain, from the Spanish discovery to the treaty of Guadalupe Hidalgo. [2205-1]

3290. Traditional East Asia. (3). A survey of Chinese and Japanese civilization from their beginnings through the eighteenth century. [2205-1]

3291. Modern East Asia. (3). A survey of the Far East during the nineteenth and twentieth centuries. [2205-1]

3801. American Diplomatic History to 1913. (3). A study of the diplomacy of the United States to 1913. The relationship of diplomacy to domestic policy and attitudes will be emphasized. [2205-1]

3802. American Diplomatic History Since 1913. (3). A study of the diplomacy of the United States since 1913. The relationship of diplomacy to domestic policy and attitudes will be emphasized. [2205-1]

3821. Economic History of the United States to 1865. (3). A study of American economic development to 1865. [2205-1]

3822. Economic History of the United States since 1865. (3). A study of American economic development since 1865. [2205-1]

3840. United States Constitutional History. (3). A survey of constitutional developments from the colonial period to the present with emphasis on the English heritage, the constitutional antecedents of the revolutionary era, the origins and growth of the federal system under the Constitution of 1787, and the evolution of modern constitutional government in the United States. [2205-1]

3861. Social and Intellectual History of the United States to 1865. (3). A study of the main social and intellectual trends in the United States to 1865. [2205-1]

3862. Social and Intellectual History of the United States since 1865. (3). A study of the main social and intellectual trends in the United States since 1865. [2205-1]

3871. United States Urban History. (3). A study of the development of American cities, including formation of local social, economic, and political institutions, and the impact of urbanization on the United States. [2205-1]

3900. History of Tennessee. (3). A study of the political, economic, and social development of Tennessee from earliest times. [2205-1]

3920. The Old South. (3). A study of southern institutions prior to the outbreak of the Civil War. [2205-1]

3930. The New South. (3). A study of the South from the Civil War to the present. [2205-1]

3940. The West. (3). A study of the significance of the frontier in the development of the United States from the Revolutionary period to 1890. [2205-1]

4003. Historiography and the Philosophies of History. (3). A survey of the important ideas which men in Western Civilization have enter-

tained about the nature and meaning of history. Approximately one-fourth of the course will be devoted to a common body of readings and to class discussion of the basic problems involved; the remainder will be conducted on the basis of individual tutorials. **PREREQUISITE:** admission to the honors program. [2205-1]

4010. Topics in History. (3). Intensive study of selected topics in history. The topics will be announced in the *Schedule of Classes*. [2205-1]

4012. Directed Readings, Honors. (3). Under the direction of a faculty member, the student will engage in a course of reading related to a particular topic or topics. **PREREQUISITE:** admission to the Honors Program. [2205-8]

4126. Victorian England, 1840-1900. (3). Readings and discussion on selected topics such as the development of English liberal thought, Victorian society and values, and imperialism. [2205-1]

4145. History of Modern Germany. (3). A study of Germany from the origins of the unification movement in the Napoleonic Era through the Second World War. [2205-1]

4160. History of Russia to 1801. (3). A study of the political, economic, social, and cultural development of Russia from early times to the beginning of the nineteenth century. [2205-1]

4161. History of Russia from 1801 to 1917. (3). A study of the political, economic, cultural, and intellectual development of the Russian Empire from the reign of Alexander I to the Bolshevik Revolution of 1917. [2205-1]

4162. History of the Soviet Union. (3). A detailed study of the 1917 Revolution and the major developments in government, economy, cultural and social life, and international affairs which followed. [2205-1]

4163. History of Socialism and Marxism. (3). A study of socialist and Marxist thought and the rise of socialist and Marxist social and political movements in Europe, Russia and the Far East. The unique social, economic, and political conditions which gave rise to the experimentation with and the application of Marxism will be stressed. [2205-1]

4230. History of Inter-American Relations, 1808 to the Present. (3). Relations among the American nations, with emphasis on the relationship between the United States and Latin America. Among topics to be discussed are recognition, the Monroe Doctrine, Pan Americanism and trade relations, intervention, the Good Neighbor Policy, the Organization of American States, and the Alliance for Progress. [2205-1]

4240. History of Mexico. (3). A survey of the political, economic, social, and cultural development of Mexico from ancient times to the present. [2205-1]

4250. History of Brazil. (3). A survey of the political, economic, social, and cultural development of Brazil from early times to the present. [2205-1]

4281. Africa South of the Sahara. (3). A survey with major emphasis on black Africa in the nineteenth and twentieth centuries. The age of imperialism and the impact of the West on Africa; the colonial policies of the European powers; the rise of the nationalist movements; the problems of newly independent nations; the role of African countries in world affairs. [2205-1]

4282. The History of North Africa. (3). A survey with major emphasis on the nineteenth and twentieth centuries. The extension of European influence and control; the rise of nationalist movements; the role of these areas in world affairs. [2205-1]

4283. The History of Southern Africa. (3). A study of the course of European colonization

and its impact on the African people from 1652 to date in the Republic of South Africa, Rhodesia, and the former High Commission territories. [2205-1]

4284. European Imperialism In Africa. (3). Readings and discussion of selected case histories of European annexations of African territory, largely in the period 1870-1900. The partition of Africa is studied against the background of great power politics. [2205-1]

4292. History of Modern China, 1800 to the Present. (3). A study of China since 1800. [2205-1]

4294. History of Modern Japan, 1800 to the Present. (3). A study of Japan since 1800. [2205-1]

4295. Intellectual History of East Asia Since 1800. (3). A study of the evolution of modern Chinese and Japanese thought. [2205-1]

4321. History of Ancient Civilization I. (3). A study of the Ancient Near East and Greece through the time of Alexander the Great. **NOTE:** Students who have received credit for History 3321 will not be allowed credit for History 4321. [2205-1]

4322. History of Ancient Civilization II. (3). A study of the Hellenistic World and of the rise and fall of the Roman Empire. **NOTE:** Students who have received credit for History 3322 will not be allowed credit for History 4322. [2205-1]

4361. History of the Byzantine Empire. (3). A history of the Byzantine or East Roman Empire from 330 to 1453 and its influence on the Slavic, Turkic, and Islamic peoples. **NOTE:** Students who have received credit for History 3371 will not be allowed credit for History 4361. [2205-1]

4371. Early Middle Ages. (3). A study of the Late Roman Empire, the migration period, the emergence of Islamic, Byzantine, and West European cultures through the period of the Investiture Controversy. **NOTE:** Students who have received credit for History 4370 will not be allowed credit for History 4371. [2205-1]

4372. The High Middle Ages. (3). A study of the urban emergence, the growth of feudal monarchy, the foundations of modern political institutions, the medieval universities, and the intellectual fabric of scholasticism. **NOTE:** Students who have received credit for History 4370 will not be allowed credit for History 4372. [2205-1]

4380. Renaissance Europe, 1300-1520. (3). A study of the transition from medieval to early modern institutions in Europe with an emphasis on urban growth, capitalism, emergent nationalism, international diplomacy, and humanism. [2205-1]

4390. Europe in the Age of the Reformation. (3). A consideration of the characteristic political, social, economic, intellectual, and cultural developments and the religious conflicts of the late fifteenth and sixteenth centuries. [2205-1]

4401. Europe in the Age of the Baroque. (3). A study of the political crises, the development of monarchical absolutism, the rise of modern science, and the cultural synthesis in the seventeenth century. **NOTE:** Students who have received credit for History 4400 will not be allowed credit for History 4401. [2205-1]

4402. The Age of the Enlightenment. (3). A study of intellectual, cultural, social, and political developments in eighteenth-century Europe. **NOTE:** Students who have received credit for History 4400 will not be allowed credit for History 4402. [2205-1]

4440. The Era of the French Revolution. (3). A study of the origins and course of the French Revolution in the context of the revolutionary and counter-revolutionary movements in the Atlantic world. [2205-1]

4451. Europe, 1815-1870. (3). A study of Europe during the period 1815-1870. **NOTE:** Students who have received credit for History 4450 will not be allowed credit for History 4451. [2205-1]

4452. Europe, 1870-1914. (3). A study of Europe during the period 1870-1914. **NOTE:** Students who have received credit for History 4450 will not be allowed credit for History 4452. [2205-1]

4461. Europe, 1914-1939. (3). A study of Europe during the period 1914-1939. **NOTE:** Students who have received credit for History 4460 will not be allowed credit for History 4461. [2205-1]

4462. Europe, 1939 to present. (3). A study of Europe since 1939. **NOTE:** Students who have received credit for History 4460 will not be allowed credit for 4462. [2205-1]

4501. Intellectual History of Europe I. (3). Topics in the history of European thought and culture from the thirteenth through the seventeenth century. [2205-1]

4502. Intellectual History of Europe II. (3). Topics in the history of European thought and culture from the eighteenth century to the present. [2205-1]

4620. Colonial America, 1607-1763. (3). A study primarily of the political development and institutions of the English Colonies in America before 1763, with some attention given to Spanish, French, and Dutch colonization. [2205-1]

4630. Era of the American Revolution, 1763-1790. (3). A study of the origins and conduct of the American Revolution, the United States under the Articles of Confederation, and the writing and ratification of the Constitution. [2205-1]

4641. The Early American Republic, 1790-1825. (3). A study of American history from unification until 1825. **NOTE:** Students who have received credit for History 4640 will not be allowed credit for History 4641. [2205-1]

4642. The Jacksonian Period, 1825-1850. (3). A study of American history from 1825 to 1850. **NOTE:** Students who have received credit for History 4640 will not be allowed credit for History 4642. [2205-1]

4660. Civil War, 1850-1865. (3). A study of division and conflict. [2205-1]

4670. Reconstruction, 1865-1877. (3). A study of national and sectional issues following the Civil War. [2205-1]

4680. Emergence of Modern America, 1877-1914. (3). A study of the United States from the end of Reconstruction to the outbreak of World War I. [2205-1]

4701. The United States, 1914 to the Second World War. (3). A study of the United States from the outbreak of World War I to World War II. **NOTE:** Students who have received credit for History 4700 will not be allowed credit for History 4701. [2205-1]

4702. The United States from the Second World War. (3). A study of the United States from World War II to the present. **NOTE:** Students who have received credit for History 4700 will not be allowed credit for History 4702. [2205-1]

4811. United States Military and Naval History. (3). A survey of developments since the colonial period with emphasis on the background and growth of national military and naval establishments, military and naval thought, the difficulties accompanying modernization and assumption of global responsibilities, and the problem of the relationship between the civilian and military-naval sectors in a democracy. [2205-1]

4823. American Labor History. (3). A study of the historical development of the labor movement in the United States, with special emphasis given to the social, economic, and political trends related to the labor movement. [2205-1]

4881. Black American History. (3). A survey of the role of the blacks in America from Jamestown to the present. [2205-7]

4941. History of the American Indian. (3). A study of the role of the Indian in American history. [2205-7]

4996. Honors Thesis. (3). Under the direction of a faculty member, and with the approval of the Honors Committee, each honors student will write a thesis based on research in primary and/or secondary sources. **PREREQUISITE:** admission to the Honors Program. [2205-8]

Graduate Courses in History: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

MATHEMATICAL SCIENCES

PROFESSOR STANLEY FRANKLIN, *Chairman*
Room 373, Dunn Mathematics-Foreign Languages Building

Requirements for a major or minor in mathematics are given on page 55.

The Department of Mathematical Sciences offers general courses in mathematics, statistics and computer science for students in all departments of the University, with specially designed programs for the principal divisions of the University. Courses which satisfy specific graduation requirements of the several colleges or departments are as follows:

For the College of Arts and Sciences:

Mathematics 1181 and 1182; or
Mathematics 1203 and 2291; or
Mathematics 1203 and 2611; or
Mathematics 1203 and 1312; or
Mathematics 1211 and 1212; or
Mathematics 1321 and 2321.

For the Elementary Education Major in the College of Education:

Mathematics 1181, 1182, and 2581

For the College of Business Administration:
Mathematics 1203

The courses Mathematics 1000, 1100, 1211, and 1212 provide preparatory instruction, as needed, for required courses. Mathematics 1000 provides remedial instruction in elementary algebra as preparation for Mathematics 1100; and Mathematics 1100, Intermediate Algebra, prepares the student for either Mathematics 1203 or Mathematics 1211. Mathematics 1211 provides preparation for Mathematics 1212, and Mathematics 1212 provides preparation for Mathematics 1321.

A placement test is recommended for students who plan to register in any of the courses Mathematics 1203, 1211, 1212, or 1321. Students taking the placement examination may take it for credit by making written application to the chairman of the department and paying the appropriate fees for such credits to be recorded, prior to the exam.

Students may earn credit by examination in any Mathematics course after obtaining permission of the department chairman and paying the appropriate fees. A form for this purpose is available in the office of the department chairman.

NOTE: A student who wishes to take a course without having had all of its prerequisites must obtain permission of the instructor and of the Chairman of the Department of Mathematical Sciences.

Honors Program in Mathematics

The Department of Mathematical Science offers an honors program in mathematics for the talented student who desires to achieve mathe-

matical maturity at a rate consistent with his own exceptional ability. The core of this program is a two-year sequence of course work in depth, the ideas of which underlie all of contemporary mathematics. After completion of this two-year sequence, the participant will be treated as a mature student of mathematics and he will be allowed to register for any course in mathematical sciences at the B.S. or M.S. level (subject to the regulation of the Graduate School concerning combination undergraduate-graduate students as set forth on page five of Policies of the Graduate School) regardless of the formal course prerequisites. The second two years of the honors program are thus characterized by a high degree of flexibility and mathematical maturation. Specific requirements are as follows:

1. Mathematics 1401, 1402, 2401, 2402 (in lieu of 1321, 2313, 2322, and 4241)
2. At least two approved one-semester courses containing significant mathematical applications, taken in a department other than Mathematical Sciences.
3. A minimum of 18 hours of upper-division courses in Mathematical Sciences, including Senior Honors Seminar, with a GPA of 3.5 or better in these courses; courses to be determined in consultation with the student's advisor and with the approval of the departmental Honors Committee.

Students completing the honors program will be awarded the special distinction "With Honors in Mathematical Sciences" at commencement. The Honors Committee of the Department of Mathematical Sciences will make all decisions concerning admissions to the program.

E280 MATHEMATICS (MATH)

1000. Basic Mathematics. (3). Signed numbers; order of operations; variables, first degree equations; products and factors of polynomials; basic operations on algebraic fractions; ratio and proportion; first degree equations in two variables; radical expressions. **RESTRICTION:** *This course satisfies no mathematics requirement for any degree. It is offered solely as preparation for MATH 1100.* **NOTE:** Students who have received credit for MATH 1201 will not be allowed credit for MATH 1000. No more than three hours credit in MATH 1000 and 1100 may be applied toward any degree program. [1701-1]

1100. Intermediate Algebra. (3). Set notation, first degree inequalities, absolute value equations and inequalities; operations on polynomials; operations on rational expressions; integral, fractional and negative exponents; operations involving radical expressions; complex numbers; quadratic equations; systems of linear equations; determinants. **RESTRICTION:** *This course satisfies no mathematics requirement for any degree. It is offered solely as preparation for College Algebra (either MATH 1203 or MATH 1211).* **NOTE:** No more than three hours credit in MATH 1000 and 1100 may be applied toward any degree program. [1701-1]

1181. Concepts of Number. (3). Introduction to logic; elements of set theory; systems of numeration; the real number system; algorithms; number sentences. [1701-1]

1182. Concepts of Algebra. (3). Relations and functions; equations; exponents; polynomials; applications. **PREREQUISITE:** MATH 1181. [1701-1]

1203. College Algebra With Business Applications. (3). Basic algebraic techniques with applications to economic and business problems. Development of conceptual understanding and practical application of linear equations, inequalities, vectors, and matrices. Uses of algebra and finite mathematics in economics, finance, marketing and production. (Placement

test recommended, but not required). **NOTE:** Only one of the courses MATH 1203 or MATH 1211 can be used to satisfy degree requirements. **PREREQUISITE:** MATH 1100 or its equivalent. [1701-1]

1211. College Algebra. (3). Inequalities; quadratic equations; relations and functions; absolute value; exponential and logarithmic functions; systems of equations and inequalities; matrices; complex numbers; roots of polynomials; sequences and series; binomial expansion. (Placement test recommended but not required.) **NOTE:** Only one of the courses MATH 1203 or MATH 1211 can be used to satisfy degree requirements. **PREREQUISITE:** MATH 1100 or its equivalent. [1701-1]

1212. Trigonometry. (1-3). Algebraic and trigonometric functions; absolute value; inequalities; applications and graphs; identities and inverse trigonometric functions; polynomials; logarithmic and exponential functions; quadratic systems. **PREREQUISITE:** Placement test recommended but not required; MATH 1203 or 1211. [1701-1]

1213. College Algebra and Trigonometry. (3). Exponents; radicals; quadratic functions; inequalities; relations and functions; inverse, exponential and logarithmic functions; solution of algebraic systems; Trigonometric functions, identities, equations and graphs; angle measurements; sum, difference, half-angle and double-angle formulas; solution of triangles; laws of sines and cosines. [1701-1]

1312. Elementary Calculus. (3). Introduction to the concepts and methods of elementary calculus of one real variable as related to rational, exponential, and logarithmic functions; the nature of derivatives; differentiation; application of the derivative; the nature of integration; the definite integral; applications of the definite integral. **NOTE:** Only one of the courses MATH 1312 or 1321 may be used to satisfy degree requirements. **PREREQUISITES:** MATH 1182, 1203 or 1211. [1701-1]

1321. Analytic Geometry and Calculus. (4). Essentials of analytic geometry of the plane with vectors; the nature of derivatives; differentiation of algebraic and trigonometric functions; applications of the derivative; basic concepts of integration and definite integral with applications. (Placement test recommended but not required.) **NOTE:** Only one of the courses MATH 1312 or 1321 may be used to satisfy degree requirements. **COREQUISITE:** MATH 1212, 1213 or equivalent. [1701-1]

1401. Honors Mathematics, I. (5). Elements of linear algebra; underlying concepts in integral and differential calculus. **PREREQUISITE:** permission of the Honors Committee. [1701-1]

1402. Honors Mathematics, II. (5). Axiomatic set theory; development of the real number system. **PREREQUISITES:** MATH 1401, and permission of the Honors Committee. [1701-1]

2291. Mathematics of Finance. (3). Compound interest and annuities with applications; introduction to mathematics of life insurance. **PREREQUISITE:** MATH 1203 or 1211. [1701-1]

2321. Analytic Geometry and Calculus. (4). Differentiation, integration and analytical aspects of the elementary transcendental functions; techniques of integration; limits and continuity; applications of the definite integral; polar coordinates. **PREREQUISITE:** MATH 1321. [1701-1]

2322. Analytic Geometry and Calculus. (4). Indeterminate forms; improper integrals; vectors and analytic geometry in 3-space; partial differentiation; multiple integrals; infinite series. **PREREQUISITE:** MATH 2321. [1701-1]

2401. Honors Mathematics, III. (5). Introductory point set topology; elements of abstract algebra. **PREREQUISITE:** MATH 1402 and permission of the Honors Committee. [1701-1]

2402. Honors Mathematics, IV. (5). Topics in abstract algebra and real analysis. PREREQUISITES: MATH 2401 and permission of the Honors Committee. [1701-1]

2581. Concepts of Geometry. (3). Introduction to the idea of proof in a postulational system; development of the geometric relationships independent of number, including congruent triangles, similar triangles, parallelograms, and circles; applications of number in geometry including coordinate geometry, lengths, areas, and volumes. PREREQUISITE: MATH 1182. [1701-1]

3111. Advanced Calculus. (3). Arguments and proofs; symbolic logic; the axiomatic method; the real number system; functions and sequences; limits; continuity; differentiation. PREREQUISITE: MATH 2322. [1701-1]

3241. Matrix Theory. (3). Matrix algebra; elementary operations; equivalence; determinants; similarity, polynomial matrices; matrix analysis; applications. PREREQUISITE: MATH 1312 or 1321. [1701-1]

3391. Differential Equations. (3). Ordinary differential equations including series solutions. PREREQUISITE: MATH 2322. [1703-1]

3392. Vector and Tensor Analysis. (3). Determinants, ϵ -systems and certain transformation equations; calculus of vectors, integrals dependent on a parameterized arc; integral transformations including Gauss' divergence theorem and Stokes' theorem; tensors and applications. COREQUISITE: MATH 3391. [1703-1]

4151. History of Mathematics. (3). The development of mathematics from the earliest times to the present; problem studies; parallel reading and class reports. PREREQUISITE: MATH 2321 or its equivalent. [1701-1]

4171. Special Problems in Mathematics. (1-3). Directed individual study in a selected area of mathematics chosen in consultation with the instructor. Repeatable by permission of the chairman of the department. PREREQUISITE: permission of instructor. [1701-8]

4221. Theory of Numbers. (3). Divisibility properties of integers; prime numbers; congruences; diophantine equations; quadratic residues; number theoretic functions. PREREQUISITE: MATH 1312 or 1321. [1701-1]

4241. Linear Algebra. (3). Systems of linear equations; matrices and elementary row operations; vector spaces and subspaces; inner product spaces; linear transformations; linear functionals; annihilators; polynomials. PREREQUISITE: MATH 2321 or permission of instructor. [1701-1]

4261. Abstract Algebra. (3). (Formerly Mathematics 3262). Groups; homomorphisms; rings; integral domains; polynomials; fields. PREREQUISITE: MATH 4241 or permission of instructor. [1701-1]

4351. Advanced Calculus. (3). Integration theory; Riemann and Lebesgue integrals; partial differentiation; implicit function theorem. PREREQUISITE: MATH 3111 or permission of instructor. [1701-1]

4361. Complex Variables. (3). Complex numbers; analytic functions; Cauchy-Riemann conditions; Taylor and Laurent series; integration. PREREQUISITE: MATH 2322. [1701-1]

4391. Applied Mathematics. (3). Laplace transforms; Fourier series; introduction to partial differential equations. PREREQUISITE: MATH 3391. [1703-1]

4392. Applied Mathematics. (3). Partial differential equations. PREREQUISITE: MATH 4391. [1703-1]

4402. Senior Honors Seminar. (3). In-depth study of one or more topics in Mathematical Sciences with emphasis on individual research and prob-

lem solving techniques; each student will write and present an Honors Thesis. PREREQUISITE: Open only to senior Honors Students in Mathematical Sciences with permission of instructor. [1701-8]

4411. Topology. (3). Introductory set theory; metric spaces; topological spaces; continuous functions; separation axioms; separability and countability axioms; connectedness and compactness. PREREQUISITE: MATH 3111 or 4241 or permission of instructor. [1701-1]

COMPUTER SCIENCE (MATH)

4710. Computer Programming. (3). A first course in the programming of digital computers, stressing algorithmic problem solving. BASIC and FORTRAN programming languages and their application to a variety of numerical and non-numerical problems. Use of remote batch terminals and interactive terminals. PREREQUISITE: MATH 1203 or 1211 or equivalent. [0704-1]

4711. Advanced Computer Programming. (3). The elements of computer organization, machine language, forms of data representation and instructions and their effects on algorithmic programs. Operating systems, job control language, and the use of system supplied auxiliaries. Assembler language and its application to a variety of numerical and non-numerical problems. PREREQUISITE: MATH 4710 or its equivalent. [0704-1]

4713. Numerical Computer Methods. (3). Methods of numerical computation; interpolations; numerical differentiation and integration; solution of algebraic and transcendental equations; inversion of larger matrices; determination of proper vectors and proper values; solution of differential and integral equations; estimation of error and error control. PREREQUISITE: MATH 4710 or its equivalent. [0701-1]

4715. Artificial Intelligence. (3). Self-organizing systems, information theory, rational decision-making; pattern recognition, parametric and non-parametric training methods for developing pattern classifiers; problem solving; heuristic programming and problem reduction search methods. PREREQUISITE: MATH 2321 and 4710 or their equivalents. [0701-1]

4721. Numerical Analysis I. (3). Derivation and application of computer-oriented, numerical methods for functional approximation, differentiation, quadrature, and the solution of ordinary differential equations. PREREQUISITES: MATH 2321 and 4710 or its equivalent. [1703-1]

4722. Numerical Analysis II. (3). A continuation of MATH 4721; computer-oriented numerical methods for the solution of nonlinear equations; systems of linear equations; eigenvalue and eigenvector problems; least squares approximation; minimax approximation. PREREQUISITE: MATH 4721. [1703-1]

4741. Linear Programming Methods. (3). Theory of linear programming methods; problem formulation; convex sets; simplex and revised simplex methods; matrix games and linear programming. PREREQUISITES: MATH 3241 and 4710 or its equivalent. [1703-1]

4765. Information Structures. (3). Introduction to data structures including lists, stacks, queues, trees, and graphs. Scanning, searching, sorting and merging. Machine representation of data structures. Introduction to information storage and retrieval. PREREQUISITE: MATH 4710. [0701-1]

4769. Programming Languages. (3). Classification and structure of programming languages. Syntactic description of programming languages. Scope of declarations and the relationship to resource allocation. Recursive procedures, non-numeric languages, structured

programming and language extension. PREREQUISITE: MATH 4710 or its equivalent. [0704-1]

4791. Topics in Computer Science. (1-3). Directed individual study of selected areas of computer science. Repeatable by permission to six semester hours. PREREQUISITE: permission of instructor. [0701-8]

STATISTICS (MATH)

2611. Elementary Statistics. (3). Basic statistical concepts; elementary probability theory; normal curve and applications; linear, multiple, and partial correlation; statistical inference. PREREQUISITE: MATH 1100 or its equivalent. [1702-1]

4611. Statistical Methods I. (3). Binomial, hypergeometric, Poisson, multinomial and normal distributions; test of hypotheses, chi-square test, t-test, F-test, etc.; non parametric tests; correlation analysis. PREREQUISITE: 6 hours in mathematics at the level of MATH 1211 or above. [1702-1]

4612. Statistical Methods II. (3). Continuation of Statistics 4611. An introduction to analysis of variance, regression and analysis of covariance. PREREQUISITE: MATH 4611. [1702-1]

4613. Introductory Statistical Theory. (3). Distributions of functions of random variables; limiting distributions; correlation and regression; Neyman-Pearson Lemma; likelihood ratio tests; sufficient statistics; point estimations. PREREQUISITE: MATH 2322. [1702-1]

4631. Probability. (3). Basic concepts in probability; probability models; applications. PREREQUISITES: 6 hours in mathematics at the level of MATH 1211 or above. [1702-1]

4671. Topics in Statistics. (3). Recent developments in statistical methods and applications. PREREQUISITE: permission of the instructor. [1702-1]

Graduate courses in Mathematics: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

PHILOSOPHY

PROFESSOR GENE G. JAMES,
Chairman

Room 319, Clement Humanities Building

Philosophy Honors Program. This program is open to philosophy majors with an average of 3.0 or better. The student will write a senior honors thesis, the topic of which must be approved by his director prior to the semester in which he registers for Philosophy 4891.

NOTE: Students beginning the study of philosophy should take Philosophy 1111 and Philosophy 1611. Either course may be taken first. See page 56 for requirements for a major or minor in philosophy.

E330 PHILOSOPHY (PHIL)

1111. Introduction to Philosophy. (3). An introduction to philosophy through the problems arising from man's reflection on the nature of the world and his place and conduct in it. Readings from classical and contemporary sources. [1509-1]

1611. Elementary Logic. (3). An introduction to the principles of valid reasoning with emphasis on the nature of language, the fundamentals of deductive and inductive inference, and the use of logic as a practical human instrument. [1509-1]

3211. History of Ancient Philosophy. (3). Selected readings from primary sources, supplemented by commentary from antiquity and modern scholarship, including the Pre-Socratics, Plato, Aristotle, and the Hellenistic period. **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3311. History of Modern Philosophy. (3). A survey of the history of philosophy from the late Renaissance through the Eighteenth Century. **PREREQUISITE:** PHIL 1111 and permission of instructor. [1509-1]

3372. Philosophy of the Nineteenth Century. (3). Extensive readings in representative 19th century philosophers from Fichte to Nietzsche, with special attention given to such movements as dialectical materialism, existentialism, positivism, Darwinism, neo-Kantianism, and English idealism. **PREREQUISITE:** PHIL 3311 or permission of instructor. [1509-1]

3402. American Philosophy. (3). An examination of the development of philosophy in America. **PREREQUISITE:** two courses in philosophy, or one course in philosophy and permission of instructor. [1509-1]

3411. The Conflict of Ideals in Contemporary Civilization. (3). The philosophical implications of important current issues, with attention to the philosophical presuppositions of the cultural, intellectual, political, and economic conflicts of the modern world. Readings from contemporary authors. The topics of this course will vary from semester to semester. **NOTE:** *Students who have received credit for Philosophy 2411 may not receive credit for this course.* [1509-1]

3451. The Rise of Existentialism. (3). An historical and comparative study of the different existentialist writers and their relation to literature, religion, and psychology. Readings from Kierkegaard, Nietzsche, Jaspers, Heidegger, Sartre, and Marcel. **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3511. Ethics. (3). A course in ethics with emphasis on a critical analysis of classical ethical theories and their application to the problems of the individual and society. **(NOTE: Students who have received credit for Philosophy 2511 will not be allowed credit for Philosophy 3511.)** **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3512. Science, Technology and Human Values. (3). A course dealing with ethical problems growing out of the development of modern science and technology with discussion of such issues as the relation of science to society, dehumanization of the individual, the impact of technology on the environment, modern warfare, etc. Specific content of the course varies each semester. No prerequisite required. [1509-1]

3513. Professional Ethics. (3). An examination of the practice and codes of ethics of professionals in business, law, education and government from the standpoint of contemporary ethical theory with attention to such issues as conflict with public good, individual and corporate responsibility, free enterprise and social justice, and the proper relation of the professions to government and vice versa. Specific content of the course varies each semester. No prerequisite required. [1509-1]

3514. Biomedical Ethics. (3). A discussion of ethical problems raised by contemporary medical practices and biological innovations from the standpoint of contemporary ethical theories with discussion of such problems as abortion, euthanasia, behavior modification, human experimentation and genetic engineering. No prerequisite required. [1509-1]

3551 Social and Political Philosophy. (3). An examination of the major philosophical theories of man and the state with emphasis upon the concepts of society, culture, institutions, government, law, power, authority, rights, and obligation. Selected readings. **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3621. Intermediate Logic. (3). Symbolic logic, including the propositional calculus, the lower functional calculus, and related topics. **PREREQUISITE:** PHIL 1611 or permission of instructor. [1509-1]

3661. The Development of Scientific Thought. (3). An historical introduction to science and scientific thinking, with selected readings from both ancient and modern scientists and philosophers of science. **PREREQUISITE:** one course in philosophy or a major in the natural or mathematical sciences. [1509-1]

3662. Philosophy of Science. (3). An examination of the basic features of science. A detailed analysis of the problems of scientific procedure, theory construction, and verification both in the physical and social sciences will be made. **PREREQUISITE:** PHIL 1611, or permission of instructor. [1509-1]

3701. Foundations of Western Religion. (3). A study of primitive religion and representative national religions of the past. Readings from such sources as *The Gilgamesh Epic*, *The Hymn to Aten*, and the hermetic, rabbinic, and apocalyptic literature. Special attention will be given to the mystery religions, agnosticism, the hellenistic philosophers, and to their cultural impact on Judaism and Christianity. **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3711. Philosophy of Religion. (3). An analysis of the philosophical issues raised by religious experience including classical and contemporary arguments for and against the existence of God, the meaningfulness of religious language, and the concepts of faith, evil and immortality. **PREREQUISITE:** PHIL 1111 or permission of the instructor. [1509-1]

3721. Oriental Philosophy. (3). Philosophies of India, China, and Japan, with readings from the primary sources of Hinduism, Jainism, Buddhism, Confucianism, Taoism, and Shintoism. **PREREQUISITE:** PHIL 1111 or permission of the instructor. [1509-1]

3761. The Philosophy of Art. (3). A course dealing with the role of philosophical ideas in artistic creation and experience and their expression in painting, sculpture, music, and other art forms. **PREREQUISITE:** PHIL 1111 or permission of instructor. [1509-1]

3771. Philosophy in Literature. (3). A course dealing with the expression of philosophical ideas in literature. Readings from philosophers, playwrights, novelists and poets. **PREREQUISITE:** PHIL 1111 or permission of the instructor. [1509-1]

4011. Theory of Knowledge. (3). The basic problems of epistemology, with readings in the important philosophers. **PREREQUISITE:** three courses in philosophy, or two courses and permission of instructor. [1509-1]

4021. Metaphysics. (3). An analysis of the basic metaphysical concepts and a critical study of old and new theories of the nature of being. **PREREQUISITE:** three courses in philosophy, or two courses and permission of instructor. [1509-1]

4031. Hegel. (3). A detailed investigation of some of Hegel's most influential works. **PREREQUISITES:** PHIL 3311 and two additional courses in philosophy. [1509-1]

4221. Plato. (3). An examination of the philosophy of Plato. Readings from the *Dialogues*. **NOTE:** *Students who have received credit for Philosophy 3221 will not be allowed credit for Philosophy 4221.* **PREREQUISITE:** PHIL 3211. [1509-1]

4232. Aristotle. (3). An examination of the philosophy of Aristotle. Reading from the works of Aristotle. **NOTE:** *Students who have received credit for Philosophy 3232 will not be allowed credit for Philosophy 4232.* **PREREQUISITE:** PHIL 3211. [1509-1]

4372. Kant. (3). An intensive study of the major philosophical works of Immanuel Kant, with special attention given to *The Critique of Pure Reason* and to the relation between Kant's critical philosophy and his ethics, aesthetics, and philosophy of religion. **PREREQUISITES:** PHIL 3311 and two additional courses in philosophy. [1509-1]

4421. Philosophy of Mind. (3). A critical examination of contemporary positions on the mind-body problem, the problem of other minds, and related topics. **PREREQUISITE:** three courses in philosophy or two courses and permission of instructor. [1509-1]

4422. The Rise of Analytic Philosophy. (3). The development of the views of analytic philosophers from Russell and Wittgenstein to Ayer, Wisdom, and others. **PREREQUISITE:** three courses in philosophy or two courses and permission of instructor. [1509-1]

4431. Philosophy of Language. (3). A critical examination of contemporary problems in the philosophy of language to include such topics as theories of meaning, reference, and analyticity. **PREREQUISITE:** three courses in philosophy or two courses and permission of instructor. [1509-1]

4441. Phenomenology and its Historical Background. (3). A reading and discussion of basic texts in translation of Husserl's *Ideas*, *Cartesian Meditations* and from the *Crises of European Science and Phenomenology*. **PREREQUISITES:** PHIL 3311 and two additional courses in philosophy, or two courses and permission of instructor. [1509-1]

4521. Contemporary Ethical Theory. (3). An examination of contemporary ethical and meta-ethical theories. **(NOTE: Students who have received credit for Philosophy 3521 will not be allowed credit for Philosophy 4521.)** **PREREQUISITES:** PHIL 3511 and two additional courses in philosophy or permission of instructor. [1509-1]

4632. Advanced Logic. (3). The nature of axiomatic systems, techniques of formalization, and the logical foundations of mathematics. **PREREQUISITE:** PHIL 3621, or permission of instructor. [1509-1]

4811. Problems in Philosophy. (3). A study of special problems in philosophy not covered in other courses. The content of this course will be publicized prior to the semester it is to be taught. May be repeated for up to six hours credit, but not to improve grade. **PREREQUISITE:** permission of the instructor. [1509-8]

4891. Senior Honors Thesis. (3). Directed reading and research culminating in a Senior Thesis. The thesis topic is to be selected by the student with the approval of his director before the semester the student intends to take the course. Open only to senior honors students majoring in philosophy. [1509-8]

Graduate courses in Philosophy: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

PHYSICS

PROFESSOR CECIL G. SHUGART, *Chairman*
Room 216, Manning Hall

Requirements for the major and minor in physics are listed on page 56.

E350 PHYSICS (PHYS)

1111. Foundations of Physics. (3). A thorough study of certain basic principles of science, with particular stress on the nature of physics, designed for the student who has had no previous training in physics. *Two lecture, two laboratory hours per week. Credit in this course will not apply toward a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirements in the pre-professional curricula.* [1902-1]

1112. Foundations of Physics. (3). A continuation of Physics 1111. *Two lecture, two laboratory hours per week. Credit in this course will not apply to a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.* [1902-1]

1811. General Astronomy. (3). Practical astronomy and the solar system; topics include motions of the earth and moon, apparent motions of the stars and planets, eclipses, time and the calendar, properties of bodies in the solar system. Occasional observation periods will be held at night. *Two lecture, two laboratory hours per week.* [1911-1]

1812. General Astronomy. (3). A continuation of Physics 1811 with emphasis on a survey of stellar and galactic astronomy; topics include stellar distances and properties, interstellar matter, multiple stars, clusters, the milky way and other galaxies. Occasional observation periods will be held at night. *Two lecture, two laboratory hours per week.* [1911-1]

2111. General Physics. (4). The general physics course, covering the topics of mechanics, heat, and sound; required of all technology, pre-medical, pre-dental, and pre-pharmacy students. *Three lecture, two laboratory hours per week. PREREQUISITE: MATH 1212.* [1902-1]

2112. General Physics. (4). A continuation of Physics 2111, covering the topics of magnetism, electricity, light, and modern physics. *Three lecture, two laboratory hours per week. PREREQUISITE: PHYS 2111.* [1902-1]

2511 Physics for Science and Engineering. (4). Designed primarily for students intending to major in physics, chemistry, or mathematics; required of all students in the pre-engineering curriculum and recommended for students planning to teach physics in the secondary schools. *Three lecture, two laboratory hours per week. PREREQUISITE or COREQUISITE: MATH 1321.* [1902-1]

2512. Physics for Science and Engineering. (4). A continuation of Physics 2511. *Three lecture, two laboratory hours per week. PREREQUISITE: PHYS 2511.* [1902-1]

3000. Special Topics in Applied Physics. (3). The course emphasizes topics in applied areas of physics, including optics, electronics, acoustics, and radiation. Experiments and projects of special interest to the student will constitute a major portion of the course. *Three lecture hours or the equivalent laboratory hours per week. This course may not be counted toward a major in physics.* [1902-8]

3010. Introduction to Modern Physics. (4). A lecture-laboratory course covering the basic principles of special relativity, quantum mechanics, atomic physics, and selected topics in solid state, nuclear, and molecular physics. *Three lecture, three laboratory hours per week.* [1902-1]

3020. Biophysics. (3). An introduction of selected topics from biophysics with emphasis on the understanding of basic physical principles and their relation to biology and medicine. *Three lecture hours or the equivalent laboratory hours per week. The course is designed especially for life science students and may not be counted toward a major in physics.* [0415-1]

3111. Mechanics. (3). An advanced course in classical mechanics covering statistics, and dynamics of particles, rigid bodies, fluid flow, work, energy, momentum, force fields, and harmonic motion. Recommended as good preparation for advanced physics course. *Three lecture hours per week.* [1902-1]

3112. Mechanics. (3). A continuation of Physics 3111. *Three lecture hours per week. PREREQUISITE: PHYS 3111.* [1902-1]

3211. Electricity and Magnetism. (3). A study of electromagnetic fields and waves, including such topics as dielectrics, induced electromotive force, magnetic energy, magnetic materials, Maxwell's equations, and reflection and refraction. *Three lecture hours per week.* [1902-1]

3212. Electricity and Magnetism. (3). A continuation of Physics 3211. *Three lecture hours per week. PREREQUISITE: PHYS 3211.* [1902-1]

3510. Electronics. (4). Theory and applications of electronic devices such as vacuum and gas-filled tubes, photoelectric cells, and semiconductors, with particular emphasis on basic electronic circuitry and laboratory instrumentation. *Three lecture, three laboratory hours per week.* [1902-1]

4010. Advanced Experimental Physics. (2). A course designed to teach the use of the more advanced laboratory equipment and instruments, with emphasis on effective planning and performance of experiments, the treatment and interpretation of data, and the use of scientific literature and library facilities. *Six laboratory hours per week.* [1902-8]

4011. Advanced Experimental Physics. (2). A continuation of Physics 4010. *Six laboratory hours per week.* [1902-8]

4021. Applied Radiation Physics. (3). A course in applied radiation and radioactivity. Topics covered will include: types of radiation, radiation measurement, interaction with matter, and biological effects. Radiation safety aspects will be emphasized. *Three lecture hours per week. PREREQUISITE: PHYS 2112 or 2512 and MATH 1321.* [1902-1]

4022. Applied Radiation Physics. (3). A continuation of Physics 4021. *Three lecture hours per week. PREREQUISITE: PHYS 4021.* [1902-1]

4030. Radiation Physics Laboratory. (3). A laboratory course in radiation and radioactivity. Experiments will emphasize the measurement and characterization of radiation and radioactive materials. *Four laboratory hours per week. PREREQUISITE: PHYS 4021.* [1902-1]

4051. Astrophysics. (3). Application of radiation laws to the interpretation of stellar structure. Introduction to radiative transfer in atmospheres. The spectral and luminosity classification of stars. Stellar populations and evolution. *Three lecture hours per week.* [1912-1]

4110. Nuclear Physics. (3). Properties of atomic nuclei, radioactive transitions, alpha, beta, and gamma decay. Binding energy, nuclear forces and nuclear models. *Three lecture hours per week.* [1904-1]

4211. Optics. (4). After a brief review of geometrical optics, the course concentrates on wave optics. Topics include polarization phenomena, interference, diffraction, coherence, holography, and scattering. *Three lecture, three laboratory hours per week.* [1902-1]

4410. Introduction to Quantum Theory. (3). Experimental basis of quantum theory; development of the Schrodinger equation and its solution of simple systems; selected applications in atomic and molecular structure. *Three lecture hours per week.* [1902-1]

4510. Thermodynamics. (3). A mathematical treatment of thermodynamics, including such topics as work, energy, enthalpy, entropy, reversible and irreversible processes, equilibria, specific heats, and phase transitions. *Three lecture hours per week.* [1902-1]

4610. Solid State Physics. (3). Consideration of such topics as lattice vibrations, specific heats, electrical and thermal conductors in solids, magnetism. *Three lecture hours per week.* [1902-1]

4710. Spectroscopy. (3). Atomic and molecular structure as revealed by the study of radiation emitted and absorbed by substances. *Three lecture hours per week.* [1902-1]

Graduate courses in Physics: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

POLITICAL SCIENCE

PROFESSOR H. PIERRE SECHER, *Chairman*
Room 427, Clement Humanities Building

Requirements for the major and minor in political science are listed on page 56. For information concerning the pre-law curriculum, see page 47.

Important Note: The prerequisite for all 3000 and 4000 level courses is either junior standing or the permission of the instructor.

Honors Program: The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics.

Admission: Students who have completed about 55 hours of course work (with at least 9 hours in Political Science) and have a minimum overall grade point average of 3.0 (with a minimum in Political Science of 3.25), or can present equivalent qualifications, are invited to apply for admission to the program.

Program Requirements: The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors course work.

Graduation: Upon graduation, those successfully completing the program will receive on their diplomas and transcripts the special distinction "With Honors in Political Science." Details of the program are available in the Political Science Office.

E370 POLITICAL SCIENCE (POLS)

1101. Introduction to Political Science. (3). The study of how people distribute power, confer authority, resolve conflict, and pursue goals within a political system. [2207-1]

2211. National Government. (3). The origins of our system of government, the framing of the Constitution, the principles underlying constitutional government, citizenship, civil rights, political institutions, the national executive, the congressional organization and functions, and the judicial process. [2207-1]

2301. Comparative Politics. (3). An introduction to the comparative study of politics with application to selected countries. [2207-1]

2501. International Politics. (3). An analysis of the relationships among nation-states, ranging from war to cooperation, with emphasis on both domestic and external determinants of state action. [2270-1]

3211. State and Local Governments. (3). The role of the state governments in the Federal System, political institutions, elections; the organization, functions, and problems of state government, with special emphasis on Tennessee government. [2207-1]

3213. Introduction to the Study of Public Policy. (3). An introduction to the public policy formulation process and some of the major substantive areas of policy concern in America. Special emphasis is on a framework for identifying and analyzing the substance of public problems, policy making, and policy administration. [2207-1]

3216. Political Parties. (3). An analysis of the political party as a process of government, with emphasis upon party organization, activities, nominating and campaign methods, voter participation, and the two-party system. [2207-1]

3224. Urban Politics. (3). The functions and role of government in urban America in the context of urban politics and the social, economic, and governmental problems of cities and suburbs. [2207-1]

3302. Western European Government and Politics. (3). A comparative study of selected political systems of Western European States. [2207-1]

3306. Latin American Government and Politics. (3). The forms of organization, the functions and operations of government in Latin America. Emphasis will be placed on the development of political institutions and present day trends. [2207-1]

3307. Government and Politics of South Asia. (3). A study of the political institutions and governmental processes of selected South Asian states. [2207-1]

3308. Government and Politics of Sub-Saharan Africa. (3). A study of the political and governmental institutions and process of selected African states, emphasizing sub-Saharan Africa. [2207-1]

3309. Government and Politics of North Africa and Middle East. (3). An analysis of the organization and functions of governments in an area dominated by the tenets of Islam, including an examination of the origin and development of the Arab-Israeli conflict. [2207-1]

3401. Western Political Thought to 1600. (3). The history, formation, and development of political thought of the West, from the political philosophers of ancient Greece to the seventeenth century. [2207-1]

3402. Western Political Thought Since 1600. (3). The history, formation, and development of western political thought from the seventeenth century to the present. [2207-1]

3405. Introduction to Law and Jurisprudence. (3). A study of the sources, functions, and processes of law. [2207-1]

3505. International Organization. (3). An examination of the origins, structure, functions, and evolution of selected international organizations. The United Nations and/or regional and functional organizations serve as basic references. [2210-1]

3506. American Foreign Policy Process. (3). An analysis of American foreign policy, with emphasis on the factors involved in developing and implementing policy. [2207-1]

3601. Public Administration. (3). The concepts and practices of organization and management in the executive departments, national, state, and local; an analysis of bureaucracy, adminis-

trative theory, budgeting, personnel, and administrative leadership. [2102-1]

4100. Approaches to the Study of Politics. (3). A comprehensive examination of normative and empirical approaches to the study of politics. [2207-1]

4101. Techniques of Political Analysis. (3). An introduction to the analysis of quantitative data used to test hypotheses in the fields of political science and public administration, including both parametric and nonparametric techniques. Particular attention is given to alternative measures of association and significance, regression, factor analysis, path analysis, and casual meeting. [2207-1]

4102. Political Behavior. (3). An introduction to the contributions of the behavioral sciences to an understanding of the political system. Political behavior is examined as manifested in the formation of attitudes, public opinion, group organization, and political power. [2207-1]

4103. Political Socialization. (3). A study of the process whereby political attitudes and values are passed from one generation to the next and altered in transmission. Includes the quantitative measurement of political attitudes. [2207-1]

4211. Constitutional Law: National Powers. (3). An analysis of the relationships and controls of the three branches and the nature of the division of power between the nation and the states, with emphasis on the role of the Supreme Court as the arbiter in the constitutional system. [2207-1]

4212. Constitutional Law: Civil Liberties. (3). An examination of the judicial interpretation of political and civil rights with emphasis on the period since 1945. [2207-1]

4213. Public Policy. (3). The analysis of selected public policy issues and politics in the policy making process. [2207-1]

4214. The Executive Process. (3). A detailed study of the role of the executive in American politics. [2207-1]

4215. Constitutional Policies and The Judicial Process. (3). An examination of the limits of the political resources and power of the judiciary. Primary attention is directed toward the extent to which the United States Supreme Court is able to obtain compliance with its decisions on highly politicized and controversial questions of public policy. To that end, it investigates the Court in conflict with other branches of the national government, the state governments, and public opinion. [2207-1]

4216. Public Opinion and Interest Groups. (3). A study of the formulation of political attitudes and opinions. Special emphasis is placed upon the role played by interest groups in the formulation of public opinion. Includes an analysis of selected groups and their tactics. [2207-1]

4217. The Legislative Process. (3). The origins, organization, functions, and activities of the modern legislature; making laws, supervising the administration, representing and informing people. [2207-1]

4221. Urban Administration. (3). Examination of politics, administration, and public policy in an urban context. Focus is on the administrative aspects of selected governmental policy-making processes; interrelationships of governments at various levels; urban challenges facing modern public administrators. [2102-1]

4224. Urban Problems. (3). A study of selected problems in urban administration, politics, and policies. [2214-1]

4230. Legislative Internship. (3-12). Supervised internship working with the Tennessee General Assembly or other legislative bodies on current legislative programs. Seminar sessions are held to discuss and analyze the problems with which

the interns are working. May be repeated for a total of 12 credits. PREREQUISITE: permission of the department. [2207-8]

4231. Administrative Internship. (3-12). Supervised internship working with administrative branches of national, state, or local governments. Seminar sessions are held to discuss and analyze the problems with which the interns are working. May be repeated for a total of 12 credits. PREREQUISITE: permission of the department. [2207-8]

4302. The Problems of Developing Countries. (3). An introduction to the comparative study of the problems of political modernization in the developing countries of the Third World. [2207-1]

4305. Soviet Government and Politics. (3). Organization and functions of the authoritarian state, with emphasis on the role of the Communist Party and ideology. [2207-1]

4306. Contemporary Latin American Politics. (3). A study of contemporary problems in Latin American politics and inter-American relations. [2207-1]

4307. Government and Politics of Communist China. (3). A study of the institutions of government, the political process, political elites, political groups and political socialization in Communist China. [2207-1]

4309. Comparative Political Parties. (3). A comparative study of political parties and party systems in selected countries. [2207-1]

4311. Comparative Political Elites. (3). A comparative study of the role of political elites in selected political systems. [2207-1]

4313. Comparative Public Policy. (3). The comparative study of the formation and implementation of major substantive areas of public policy in selected countries. [2207-1]

4399. Research and Studies Abroad. (1-6). Supervised field research and studies in selected foreign countries. May be repeated up to six hours. [2207-8]

4401. Modern Political Ideologies. (3). A study of major ideologies affecting modern politics. Includes ideologies of democracy, communism, and fascism as well as capitalism and socialism, racism, and nationalism, and ideologies of the developing or "third" and "fourth world" nations. [2207-1]

4403. Contemporary Protest Thought. (3). Political theories of recent and contemporary protest. The subject matter varies according to what currently excites political protest, but recent topics have included the political elements of black protest, the new left, the new right, women's liberation, ecology and energy, and consumer's movements. [2207-1]

4405. American Political Thought. (3). An analysis of political thought in the United States from the colonial to the present time, with emphasis placed on the relation between political thought and political institutions and practices. [2207-1]

4407. Black Political Thought. (3). An analytical survey of black political thought from the colonial period to the present. Emphasis is placed upon recent and contemporary thought. [2207-1]

4501. Contemporary Problems in International Politics. (3). A study of contemporary problems in international relations with emphasis on the major powers. [2210-1]

4502. Soviet Foreign Policy. (3). Basic concepts of Soviet foreign policy; development and techniques; present patterns of Soviet relations with key nations; major problems in future relationships. [2207-1]

4503. Inter-American Relations. (3). Study of political relations among the nations of Latin America and with the United States. Regional

organizations and relations with Cuba are given special attention. [2210-1]

4504. International Law. (3). An analysis of the nature, scope, duties, rights, and evolutionary trends of international law. [2210-1]

4505. Comparative Communist Systems. (3). A cross-national comparison of the adaptation of ruling and non-ruling communist parties to different political environments. Includes examination of inter-party and intra-block relations. [2207-1]

4506. Problems of American Foreign Policy. (3). A study of American foreign policy problems taken from specific areas or issues of policy. [2207-1]

4507. Problems of European Politics. (3). A study of selected political problems of European states. [2207-1]

4508. Theories and Concepts in International Politics. (3). A survey of theoretical approaches to the study of international politics. Special attention is given to methodology, models, and international political simulation. [2207-1]

4602. Public Finance Administration. (3). Detailed study of administrative and political problems of fiscal policy, the budgetary process, and fiscal controls. [2102-1]

4603. Public Personnel Administration. (3). The study of policies, methods and techniques utilized in public personnel administration. Special attention is given to problems reflecting contemporary demands upon personnel organizations. The capacity to analyze problems, select the most effective means of dealing with them, and plan appropriate courses of action is developed through case example. [2102-1]

4604. Problems of Public Administration. (3). An investigation of selected problems in the public administration process, with emphasis upon contemporary developments. [2102-1]

4611. Administrative Law. (3). Study of the role and nature of administrative law, including procedural requirements and judicial review of administrative actions and liability of the government for torts and breach of contract. [2207-1]

4701. Senior Seminar in Political Science. (3). A review of professional literature generally or in a particular area of political science combined with significant research on special political problems. PREREQUISITES: senior standing and political science major. [2207-1]

4702. Independent Study. (3). Independent investigation of a research problem or directed reading in a selected area of political science under the tutorial supervision of a member of the political science faculty. PREREQUISITE: permission of the chairman. [2207-8]

4705. Special Topics in Public Issues. (3-6). A study of selected topics of current significance in public issues. May be repeated for a maximum of 6 hours credit. [2207-1]

Graduate Courses in Political Science: For course descriptions and further details of the graduate program, see The Bulletin of The Graduate School.

PSYCHOLOGY

PROFESSOR ROBERT VIDULICH, *Chairman*
Room 202, Psychology Building

Requirements for the major and minor in psychology are listed on page 56.

Psychology Honors Program

Psychology majors who have completed at least 55 hours of course work may apply for admission to the Psychology Honors Program provided they meet these requirements: (a) an overall grade-point average of 3.00 or better, (b)

completion of Psychology 1101, 1102, 2301 and 2302 and (c) a grade-point average of 3.25 or better in all psychology courses taken. Students in the program participate in an Honors Seminar (Psychology 3600) during their junior year and write an Honors Thesis (Psychology 4600) during their senior year. Those who complete the program and the regular college requirements will be awarded the degree of Bachelor of Arts or Bachelor of Science with Honors in Psychology. A detailed description of the program, together with application forms for admission, may be obtained in the Psychology Department.

IMPORTANT NOTE: Psychology 1101 or 1102 is prerequisite for all other courses in the Department of Psychology; both 1101 and 1102 are required of Psychology majors.

E390 PSYCHOLOGY (PSYC)

1101. General Psychology I. (3). An introduction to the social aspects of psychology as a science of behavior. Areas of study include personality, abnormal behavior, psychotherapy, social and developmental psychology, intelligence, and applied psychology. [2001-1]

1102. General Psychology II. (3). An introduction to the biological aspects of psychology as a science of behavior. Areas of study include learning, sensation and perception, physiological and comparative psychology, and psychopharmacology. [2001-1]

2301. Psychological Statistics. (3). An introduction to the use of statistics in psychology, with emphasis on elementary theory of measurement and computation. Topics covered include measures of central tendency and variability, tests of significance, correlation procedures, and an introduction to multi-variate analyses, analysis of variance, and non-parametric procedures. [2007-1]

2302. Experimental Techniques in Psychology. (4). An introduction to methods and techniques of observation and research on psychological topics, with emphasis on controlled laboratory experiments in such areas as learning, motivation, psychophysics, sensation, perception, and concept formation. Individual laboratory experience stressed. *Three lecture, two laboratory hours per week.* PREREQUISITE: PSYC 2301. [2002-1]

3101. Psychology of Personality. (3). The development, organization, and assessment of the normal person is examined, with an introduction to theories of personality. [2001-1]

3102. Abnormal Psychology. (3). A survey of basic concepts of psychopathology with emphasis on the development of behavior deviations, description of various neurotic and psychotic reactions, and an introduction to methods of psychotherapy. [2003-1]

3103. Developmental Psychology. (3). Patterns of intellectual and behavioral development from birth to maturity. Psychological effects of genetic, organic, and environmental influences as the individual matures. [2009-1]

3301. Industrial and Organizational Psychology. (3). An examination of the application of psychological concepts and methods to phenomena in industrial and organizational settings, with emphasis on personnel selection, classification and evaluation, employee attitudes, morale and motivation, and psychological analysis of the condition of work. [2008-1]

3302. Social Psychology. (3). An analysis of the behavior and experience of individuals in group settings, examining such topics as leadership, social influence, and inter-group and intragroup relations. [2005-1]

3303. Thinking and Cognitive Processes. (3). An analysis of the development and modification of thinking, reasoning, conceptualization, lan-

guage and symbolic activity, and other mediational processes in the individual. [2001-1]

3501. Psychological Principles in Law Enforcement. (3). A survey of the application of psychological principles to law enforcement. The course covers law enforcement both at the institutional level and at the level of the individual police officer dealing with the public. [2001-1]

3600. Honors Seminar in Psychology. (3). A seminar reserved for students entering the Honors Program in Psychology. This seminar introduces the student to the psychological research activities within the Psychology Department and to the scholarly literature which preceded and has resulted from this research. PREREQUISITE: Admission to the Honors Program in Psychology. Students enrolled in honors programs elsewhere in the University may also enroll, after receiving permission from the Director of Honors in Psychology. [2001-1]

4101. History of Psychology. (3). A comprehensive survey and critical analysis of the philosophical and scientific antecedents of contemporary psychology. PREREQUISITE: 10 upper-division hours in psychology. [2001-1]

4201. Experimental Psychology: Physiological Processes. (4). A study of the physiological functions involved in behavior and experience. A survey of the physiology of the sense organs, nervous systems, and response mechanisms. NOTE: It is strongly recommended that Psychology 2301 and 2302 be completed before enrolling in this course. *Three lecture, two laboratory hours per week.* [2002-1]

4202. Experimental Psychology: Comparative Behavior. (4). Synthesis of the ethological and comparative approaches to the study of animal behavior. Covers such topics as behavior genetics, species specific behaviors, etc. *Three lecture, two laboratory hours per week.* NOTE: It is strongly recommended that Psychology 2301 and 2302 be completed before enrolling in this course. [2002-1]

4203. Experimental Psychology: Sensation and Perception. (4). Detailed survey of the major senses with emphasis on methods of investigation and behavioral applications. Study of the perceptual processes and influences of learning and motivation on perception. *Three lecture, two laboratory hours per week.* NOTE: It is strongly recommended that Psychology 2301 and 2302 be completed before enrolling in this course. [2002-1]

4204. Experimental Psychology: Learning. (4). A survey and critical analysis of the theories, concepts, and principles of the acquisition and retention of behavior. *Three lecture, two laboratory hours per week.* NOTE: It is strongly recommended that Psychology 2301 and 2302 be completed before enrolling in this course. [2002-1]

4301. Psychological Testing. (3). Essentials of testing, emphasizing the concepts of reliability and validity; limitations of psychological tests; familiarization with standardized interests, aptitude, achievement, intelligence and personality tests; practical experience with some "paper-and-pencil" group tests; questionnaire construction and administration. PREREQUISITES: PSYC 2301 and 3101. [2006-1]

4302. Introduction to Clinical Psychology. (3). Survey of the history of clinical psychology; services provided by clinical psychologists; different strategies of diagnosis and therapy; ethical considerations of clinical psychologists. Course also includes introduction to interviewing techniques and practice in the use of these techniques, as well as field trips to institutions utilizing clinical psychologists. PREREQUISITES: PSYC 3101 and 3102. [2003-1]

4303. Behavior Modification. (3). Instruction in the techniques of behavior modification, including observational procedures, methods of remediation, data recording and report writing. **PREREQUISITES:** PSYC 3102 and 4204. [2003-1]

4501. Senior Seminar in Psychology. (3). Seminar discussion of current theoretical issues and experimental studies in psychology; open to outstanding advanced students by invitation of the faculty. [2001-1]

4502. Senior Thesis in Psychology. (3). Supervised individual research on a selected topic in contemporary psychology; open to outstanding advanced students, by invitation of the faculty. [2001-8]

4503. Special Problems in Psychology. (1-3). A course in which the student, under faculty supervision, may (a) read intensively in a specialized area, (b) conduct psychological research and/or (c) obtain field experience in community institutions where psychological principles are applied. This course may be repeated for up to 6 hours credit. **PREREQUISITE:** permission of the Department Chairman. [2001-8]

4600. Honors Thesis in Psychology. (1-6). Supervised individual research project, reserved for students enrolled in the Honors Program in Psychology. Students receive one credit hour for every 50 hours devoted to the thesis project, up to a maximum of six credit hours. **PREREQUISITE:** Good standing in the Honors Program in Psychology. [2001-8]

SOCIOLOGY AND SOCIAL WORK

PROFESSOR JERRY B. MICHEL, *Chair*
Room 231, Clement Building

Requirements for the majors and minors in sociology and social work are listed on page 56.

IMPORTANT NOTE: Sociology 1111 is a prerequisite for all other courses in sociology and social work.

E410 SOCIOLOGY (SOCI)

1111. Introductory Sociology. (3). Nature and significance of interaction and culture; social organization and processes; social and cultural change. [2208-1]

1112. Contemporary Social Problems. (3). Investigation, analysis, and discussion of current social problems. [2208-1]

3311. Social Statistics. (3). The application of basic statistical concepts and techniques to social analysis. Description of data for single variables and for relationships between two variables. Tests of significance for the relationships between two variables involving sample data. Use of packaged statistical computer programs for single and two variable analysis. [2208-1]

3322. Methods of Social Research. (3). Overview of the process of social research: selection and formulation of the problem, design of the research, methods of investigation, analysis and interpretation of data, and report preparation. Emphasis on data collection techniques. **PREREQUISITE:** SOCI 3311. [2208-1]

3401. Social Inequality. (3). The unequal distribution of power, property, and prestige; how and why this inequality occurs; and the resulting social strata such as "class" and "status group". **NOTE:** Students who have received credit for Sociology 3440 will not be allowed credit for Sociology 3401. [2208-1]

3422. Social and Ethnic Minorities. (3). (Same as Anthropology 3422). A comparative study of social and ethnic minorities in the United States and elsewhere, with a focus on differences in cultural backgrounds, social, relationships with the larger society; social educational, and legal problems; factors contributing to the satisfactory and unsatisfactory adjustments of minorities. **NOTE:** Students who have received credit for Sociology 3811 or Anthropology 3811 will not be allowed credit for Sociology 3422. [2208-1]

3432. Sociology of Sex Roles. (3). Traditional conceptions of masculinity and femininity and modifications of these resulting from economic, demographic and cultural changes. Socialization for masculine and feminine roles and variations in these roles throughout the life cycle. Class, race, occupational and other institutional differences in sex roles. **NOTE:** Students who have received credit for Sociology 3883 will not be allowed credit for Sociology 3432. [2208-1]

3501. Sociology of Deviant Behavior. (3). Contemporary theories of deviant behavior; the major types of deviation in American society; the relationship of deviant behavior and social disorganization to social change. **NOTE:** Students who have received credit for Sociology 3510 will not be allowed credit for Sociology 3501. [2208-1]

3521. Criminology. (3). Nature and significance of criminal behavior; statistics of criminal behavior and criminals; trends in the social reactions to criminal behavior and criminals. Examination of the development and nature of theories of criminal behavior. Current programs for the treatment and prevention of criminal behavior. [2209-1]

3610. Population. (3). Population theories and policies; their definition and history. Trends in population growth; methods of population analysis, and trends in fertility and mortality. Emphasis on fertility, mortality, sex and age composition, and migration and their influences on population change. **NOTE:** Students who have received credit for Sociology 4610 will not be allowed credit for Sociology 3610. [2208-1]

3701. Introduction to Social Psychology. (3). Basic theory and research dealing with the study of human behavior in social situations with particular emphasis on communication processes, socialization, social roles, social self, and interaction in group contexts. **NOTE:** Students who have received credit for Sociology 4710 will not be allowed credit for Sociology 3701. [2005-1]

3722. Collective Behavior. (3). Emergence of collective behavior, spontaneous collectivities, social movements, social consequences of restrictive collective behavior. **NOTE:** Students who have received credit for Sociology 4720 will not be allowed credit for Sociology 3722. [2208-1]

3742. Sociology of Small Groups. (3). Study of the dynamics of group formation from the sociological and social psychological perspectives. Focal areas are the emergence of group norms, values, and status/role formation, the dynamics of change within the group, and the development of leadership patterns within a confined boundary system. [2208-1]

3801. Sociology of Formal Organizations. (3). Analysis of formal organizations in society and their effects on individual and group behavior. Special emphasis on the nature of bureaucracy—in business, educational, political, welfare, military, religious, and other organizations. **NOTE:** Students who have received credit for Sociology 3411 will not be allowed credit for Sociology 3801. [2208-1]

3820. Educational Sociology. (3). Sociological analysis of education and its functions; school and community relationships; problems of social change and educational adjustments. [2208-1]

3831. Marriage and the Family. (3). Marriage and the family in contemporary society. Interrelationships with other major social institutions, mate selection, marital adjustments; parental and family disorganization. Contemporary changes and conflicts in marriage and the family. **NOTE:** Students who have received credit for Sociology 3420 will not be allowed credit for Sociology 3831. [2208-1]

3841. Industrial Sociology. (3). Social characteristics of business and industrial organizations; role of the consultant in personnel organization and human relations programs. [2208-1]

3860. Sociology of Religion. (3). The role of religion in social systems; reciprocal influence of religion and modern society; sociological analysis of religious organizations and the roles which comprise them; social correlates of religious opinions and attitudes. [2208-1]

3870. Political Sociology. (3). A sociological examination of political institutions: cultural and social factors associated with political structure, political attitudes, and political behavior; political decision-making as a sociological process; a comparative and methodological study of social movements and political parties. [2208-1]

3930. Mexican Society and Culture. (3). (Same as Anthropology 3930). A study of Mexico's social development, population, contemporary institutions and cultural patterns, the family, the community and urban society, minority group relations, and social problems. **NOTE:** Students who have received credit for Sociology 3900 or Anthropology 3900 will not be allowed credit for Sociology 3930. [2208-1]

3940. Social Change. (3). A sociological analysis of the theory, nature, meaning, and consequences of social change. **NOTE:** Students who have received credit for Sociology 3450 will not be allowed credit for Sociology 3940. [2208-1]

4210. Rise of Sociological Theory. (3). A survey of the development of sociological theory with emphasis on the period from Comte to the "Chicago School." [2208-1]

4211. Contemporary Sociological Theory. (3). European contributions, American developments and recent trends in sociological theory. [2208-1]

4312. Intermediate Social Statistics. (3). Multivariate analysis of social data. Use of computer programs for data management and statistical analysis. **PREREQUISITES:** SOCI 3311, 3322, or their equivalents, or permission of the instructor. [2208-1]

4340. Field Problems in Social Research. (3). The application of sociological knowledge and methodological skill to research projects in the community. Work on projects in cooperation with social and human service agencies and other community organizations. Writing of project reports. **PREREQUISITE:** SOCI 3322. [2208-1]

4420. Race Relations. (3). A study of ethnic organization and interrelations with specific emphasis on the status of the Negro in American society, and the process of integration. Emphasis on theoretical explanations of prejudice. **NOTE:** Students who have received credit for Sociology 4812 will not be allowed credit for Sociology 4420. [2208-1]

4442. Sociology of Poverty. (3). Sociological and social psychological perspectives on poverty in industrialized societies. Various explanations of the personality, cognitive, and behavioral correlates of poverty. [2208-1]

4522. Juvenile Delinquency. (3). Trends of juvenile delinquency; the development of case study techniques and diagnosis of juvenile delinquency; comparative analysis of various theoretical approaches. [2208-1]

4620. Human Ecology. (3). Spatial structure and land use patterns of urban, rural, and fringe areas; city growth, its spatial and communicative extension into suburban and rural areas, and its impact on the economy, values, and social organization of communities. [2208-1]

4631. Urban Society. (3). A study of urban society, its basic historical and modern development, power structures, social institutions and relationships; the future of the city. Problems of urbanization, such as slums, urban sprawl and transportation. Processes of change in the urban environment. *Note: Students who have received credit for Sociology 2410 and for Sociology 4410 will not be allowed credit for Sociology 4631.* [2214-1]

4632. Urban Research. (3). (Same as Urban Studies 4632). Extensive exploration of research methods that have proved useful in the study of urban social phenomena; the application, limitations, and advantages of various research approaches. *NOTE: Students who have received credit for Sociology 4412 will not be allowed credit for Sociology 4632.* [2214-1]

4721. Public Opinion and Propaganda. (3). The nature and development of public opinion with particular consideration of the roles, both actual and potential, of communication and influence. *NOTE: Students who have received credit for Sociology 3871 will not be allowed credit for Sociology 4721.* [2208-1]

4730. Attitude Theory and Measurement. (3). Basic properties of attitudes; theories of attitude formation and change; attitude-behavior discrepancies. Assumptions and techniques of attitude measurement, including scaling. *NOTE: Students who have received credit for Sociology 3730 will not be allowed credit for Sociology 4730.* PREREQUISITE: SOCI 3322. [2208-1]

4760. Sociology of Adolescence. (3). Study of the social aspects of adolescence. Emphasis on socialization into youthhood, the changing nature of adolescence in industrial societies, the conflict of institutional demands with peer group membership, self-identity problems, the values of youth subcultures and contracultures. *NOTE: Students who have received credit for Sociology 3881 will not be allowed credit for Sociology 4760.* [2208-1]

4842. Sociology of Occupations and Professions. (3). Sociological analysis of the division of labor, occupational groupings, career patterns, and professional associations in modern American society; the meaning of work. [2208-1]

4851. Medical Sociology. (3). A sociological analysis of the definition and distribution of physical illness and society's response to its occurrence, focusing on the roles of patient, physician and ancillary professionals within contemporary medical settings, particularly the modern hospital. [2208-1]

4852. Sociology of Mental Illness. (3). Sociological analysis of the definition and distribution of mental illness and society's response to its occurrence, focusing on the social organizational provision for professional and patient roles within contemporary therapeutic settings. [2208-1]

4911. Special Topics In Sociology. (3). Selected topics in special areas of sociology not otherwise included in the curriculum. *Note: Course may be repeated for a maximum of 6 hours credit.* [2208-1]

4912. Directed Individual Study. (1-6). Individually directed advanced reading and/or research in special areas of interest. *NOTE: Course may be repeated for a maximum of 6 hours credit. NOTE: Students who have received credit for Sociology 4830 will not be allowed to receive credit for Sociology 4912 beyond the maximum of 6 hours total credit.* PREREQUISITE: permission of department chairman. [2208-8]

4922. Senior Seminar In Sociology. (3). Seminar discussion of current theoretical issues and research in sociology. Open to senior sociology majors and to other advanced students by invitation. *NOTE: Students who have received credit for Sociology 4801 will not be allowed to receive credit for Sociology 4922.* [2208-1]

Graduate Courses in Sociology: For course description and further details of the graduate program, see The Bulletin of The Graduate School.

E470 SOCIAL WORK (SWRK)

2911. Introduction to Social Welfare. (3). History and philosophy of social welfare in the United States, purposes and obstacles to social improvement, functions of public and private social service programs, qualifications and opportunities for social work practice. [2104-1]

3901. Social Work Fields of Service. (3). Survey of the field of social work; detailed study of agency records in family- and children-focused social work, hospital social work, public welfare, psychiatric, and medical social work, social group work; introduction to methods; visits to clients along with practicing social workers. PREREQUISITE: SWRK 2911. [2104-1]

3902. Human Development and Social Interaction. (3). A survey of human needs from birth

through old age, with a focus on role functions and role relationships throughout life. Social and cultural variables and the impact of critical life experiences will be explored. PREREQUISITE: SWRK 2911. [2104-1]

3903. Models of Social Intervention, I. (3). Theories and concepts in social work, including an introduction to case work, group work and community organization. Emphasis on the case work model and on the implications of intervention. PREREQUISITES: SWRK 2911 and 3902 and permission of Director, Division of Social Work. [2104-1]

3904. Models of Social Intervention, II. (3). A continuation of Social Work 3903, emphasizing group work and organizational models. Emphasis on relationships between client and worker, interviewing skills, assessment and planning. PREREQUISITE: SWRK 3903. [2104-1]

4830. Field Instruction in Social Work. (3). Educationally focused, practice-oriented field work in a wide range of social and human service agencies, both established and newly emerging, for individual, group, and community needs; 12-16 hours weekly. May be repeated for a maximum of six hours. PREREQUISITES: SWRK 3903 and permission of Director, Division of Social Work. [2104-8]

4930. Topics in Specialized Social Services. (3). Selected topics in social needs and services; two to four areas will be examined related to student interest and emerging service needs. Directed by staff, with lectures from the campus and social service community. PREREQUISITE: Social Work major with senior status, or permission of instructor. [2104-1]

4931. Senior Seminar in Social Work. (3). A seminar in social change, with particular reference to the social worker and the social agency, principles of social change, the sociology of social action, and an examination of social work delivery systems as bureaucracies. PREREQUISITE: senior majors or permission of instructor. [2104-1]

4932. Social Group Work and Community Organization. (3). Theory and application of group dynamics concepts as applied to groups, neighborhoods, communities; the individual in the group, group and community structures and functioning; roles of the social worker in these settings. [2104-1]

4933. Directed Individual Study. (1-3). Individual directed advanced reading, field study and/or research in special areas of social work, not otherwise provided in the curriculum. PREREQUISITE: Social Work major and permission of Director, Division of Social Work. [2104-8]

THE COLLEGE OF BUSINESS ADMINISTRATION

1500 BUSINESS ADMINISTRATION (BA)

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

3900. Study and Travel in Business and Economics. (3). Travel to important areas of the world and conduct study of economic and business systems of selected countries under the direction of the faculty of the College of Business Administration. [2204-1]

4000. Internship in International Business. (1-6). A study of the practical operations of international business. Students will be placed for a 1-8 month period with one of the cooperating business firms operating in the fields of international banking and finance, transportation, management, marketing, or accounting. Academic credit will be granted upon certification or satisfactory performance by the cooperating business firm and upon the acceptance by the faculty of a written research report by the student. [0513-8]

4900. Practicum in Research. (1-3). A variable-credit course designed to expose the student to actual problem-solving research activities in business and economics: Each student is assigned to a project that is either being conducted currently by a faculty member or one that is developed under the supervision of a faculty member. Whenever possible, the project will be within the student's major field of study. PREREQUISITE: senior status. [0501-8]

4990. Junior Achievement Advising Practicum. (3). A three-hour credit course designed for a two-semester duration. Professional organizations approved by the College of Business Administration and other groups may form advising teams under the direction of a faculty advisor for the purpose of working with Junior Achievement. Begins fall semester. Students register for credit at the beginning of the spring semester. PREREQUISITE: upper division status and approval of Junior Achievement Program advisor. [0501-8]

ACCOUNTANCY

PROFESSOR JAMES THOMAS THOMPSON,
Chairman

Room 200A, The College of Business Administration Building

Requirements for the major and minor in accountancy are listed on page 60.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

1510 ACCOUNTANCY (ACCT)

2010. Fundamentals of Accounting I. (3). Study of the collection and analysis of financial transactions and communicating the information they contain with periodic general purpose financial statements using double-entry accrued accounting techniques. The use of accounting procedures to routinize and control repetitive activities. Theory is stressed with minimum necessary attention to clerical operations. [0502-1]

2020. Fundamentals of Accounting II. (3). Continuation of Accounting I plus a general survey of cost accounting, income taxes, financial statement analysis, and special accounting analysis for managerial decision making. PREREQUISITE: ACCT 2010. [0502-1]

2720. Accounting Laboratory. (1). The working of a practice set involving current accounting practice. PREREQUISITE: ACCT 2010. [0502-1]

3010. Managerial Accounting. (3). The study of accounting as it relates to managerial control. Topics studied include financial statement analysis including price level changes, cost controls, budgeting, quantitative accounting techniques for decision making in management. Both semesters. PREREQUISITE: ACCT 2020. [0502-1]

3110. Intermediate Accounting I. (3). Review of accounting process and financial statements; cash and cash flow; receivables; current liabilities; investments; intangible assets. PREREQUISITES: ACCT 2020, ACCT 2720. [0502-1]

3120. Intermediate Accounting II. (3). Property and equipment; contributed capital; retained earnings and dividends; treasury stock; bonds; income taxes; long term investments; statements from incomplete records; statements of changes in financial position; analysis of financial statements. PREREQUISITE: ACCT 2720 and 3110. [0502-1]

3310. Cost Accounting. (3). A study of cost systems, including job order, process, and standard, as management information systems for planning and control. The allocation of indirect costs, preparation of variable budgets, and determination of standard cost variances and their meaning. PREREQUISITE: ACCT 2020. [0502-1]

3510. Federal Income Tax I. (3). Regulations pertaining to individuals and partnerships; installment and deferred payment sales; introduction to corporate taxation. PREREQUISITE: ACCT 2720 and 3110. [0502-1]

4210. Advanced Accounting. (3). Partnerships, consignments, installment sales, insurance, statement of affairs, receiver's accounts, statement of realization and liquidation, annuities, and introduction to consolidations and fund accounting. PREREQUISITE: ACCT 3120. [0502-1]

4220. Consolidated Financial Statements. (3). Consolidations, mergers, foreign exchange. PREREQUISITE: ACCT 3120. [0502-1]

4240. Auditing. (3). Ethics in accounting practices, internal control, auditing standards and procedures, programs of audit of various accounts, construction and indexing of various papers, reports to clients, a practice audit is carried out. PREREQUISITES: ACCT 3120, 3310. [0502-1]

4251. Readings in Auditing. (3). Auditing theory, standards and procedures, case studies applicable to specific industries, current trends, study of American Institute of Certified Public Accountants, releases pertaining to auditing. PREREQUISITE: ACCT 4240. [0502-1]

4310. International Accounting. (3). A comparative study of international accounting and auditing practices: variations in accounting thought; reporting standards; taxation in international operations; professional and ethical standards; effect of government regulation on accounting practice. PREREQUISITE: ACCT 2020. [0502-1]

4450. Accounting Systems. (3). Problems involved in designing accounting systems for various types of business, including processing accounting data by electronic computer. PREREQUISITES: ACCT 3120, 3310, and MGMT 2750. [0502-1]

4520. Federal Income Tax II. (3). Laws and regulations for corporations, estates, and fiduciaries. PREREQUISITE: ACCT 4510. [0502-1]

4540. Governmental Accounting. (3). Accounting theory and practice applicable to federal, state, and local government; and to non-profit institutions; budgetary control; control, classifica-

tion, and use of funds; financial statements and reports. PREREQUISITE: ACCT 2020. [0502-1]

4610. Senior Seminar in Accounting. (3). Capstone course to be taken, preferably, the student's graduating semester. Impact on financial reporting of the SEC and other regulatory agencies; pension plans and leases; calculation of earnings per share; stock rights, stock options and convertible securities. Current pronouncements of the FASB, CASB and AICPA committees. Overview of the accounting process and ethics through case studies. PREREQUISITE: two senior level Accounting courses. [0502-1]

4810. Internship In Accounting. (3). Seniors, after receiving approval of the accounting faculty, are placed in offices of cooperating public accounting firms to receive on-the-job training under the direct supervision of a certified public accountant and the general supervision of the University accounting staff. Credit is allowed upon acceptance of report of work done, verified by supervising accountant. Minimum time: 500 hours. PREREQUISITE: senior standing. [0502-8]

Graduate Courses in Accountancy: For course descriptions and details of the graduate programs, see The Bulletin of The Graduate School.

ECONOMICS

PROFESSOR THOMAS O. DEPPERSCHMIDT,
Chairman

Room 400, The College of Business Administration Building

Requirements for the majors and minors in economics for the Bachelor of Business Administration degree are listed on page 60. Requirements for the major and minor in economics for the bachelor's degree in The College of Arts and Sciences are listed on page 55.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

1520 ECONOMICS (ECON)

1010. Economic Issues and Concepts. (3). A critical examination of the current economic issues facing the country. Discussion and use of the elementary tools of economic analysis so that the student becomes familiar with the importance and applicability of economic reasoning. This course will not satisfy either the ECON 2110 or 2120 requirement for the College of Business Administration. [2204-1]

2110. Introduction to Macroeconomics. (3). An introduction to the nature and functions of the national economy. Topics include: supply and demand, national income and product, consumption and investment behavior, fiscal and monetary policy, and international trade and finance. [0517-1]

2120. Introduction to Microeconomics. (3). An introduction to the tools of economics as they apply to the operation of a market economy. Topics include: supply and demand analysis, consumer behavior, the economic nature of production and cost, the behavior of firms in both competitive and monopoly environments, income distribution theory and the effects of government intervention in the market system. PREREQUISITE: ECON 1010 or 2110 is recommended but not required. [0517-1]

2130. Principles of Macroeconomics (Honors). (3). An accelerated and intensified introduction to the basic concepts of macroeconomics: sup-

ply and demand, national income and product, unemployment and inflation, monetary and fiscal policy, and international trade. PREREQUISITE: invitation of the Department of Economics or admission to the University Honors Program. [0517-1]

2140. Principles of Microeconomics (Honors) (3). An accelerated and intensified introduction to the basic concepts of microeconomics: supply and demand, consumer behavior, production and cost, competitive and monopolistic market structure, income distribution, and the effects of government intervention in the market system. PREREQUISITE: Invitation by the Department of Economics or admission to the University Honors Program. [0517-1]

3210. Labor Economics. (3). An introductory course dealing with the institutional aspects of the American labor force and its organization, wage and employment theory, the economic role of collective bargaining, and the basic ingredients of public policy toward labor organization. PREREQUISITE: ECON 2120. [0517-1]

3310. Microeconomic Theory. (3). An intermediate level approach to price theory. Stress is placed on the market mechanism as a device for resource allocation, with attention given to the uses of basic microeconomic concepts in the analysis of economic problems and in the formulation of policy. PREREQUISITE: ECON 2120. [0517-1]

3320. Macroeconomic Theory. (3). An intermediate level approach. Attention is given to social income accounting and to functional relationships between important aggregate economic variables as well as to forecasting and social policy implications. PREREQUISITE: ECON 2120. [0517-1]

3410. Economic Development of the United States. (3). Analysis of economic growth of the American economy in general and of the problems of economic growth in the South in particular. Emphasis is placed on the factors instrumental in that growth in the various segments of the economy. PREREQUISITE: ECON 1010 or 2110. [0517-1]

3580. Economic Development—An Ecological Perspective. (3). This course examines the process of economic development as an adaptive interplay between man's needs and the ways in which the environment are exploited to satisfy these needs. PREREQUISITE: ECON 1010 or ECON 2110, or consent of instructor. [0517-1]

3610. Money and Banking. (3). Monetary and banking history of leading countries with special emphasis on the theory of money and banking in the United States, deposit and earning operations of individual banks, interbank and central bank relations. PREREQUISITE: ECON 2120. [0504-1]

4111. Managerial Economics. (3). An attempt to develop an understanding of the economic reasoning underlying managerial decision-making. Economic analytical techniques are applied to profit, competition, product policy, demand and cost conditions, pricing policies, and capital budgeting. PREREQUISITE: ECON 2120. [0517-1]

4120. Economic Forecasting. (3). The current economic thinking on the problems of recession and inflation are examined as background to economic forecasting. The several methodologies of forecasting are then analyzed with examples of each. PREREQUISITE: MGMT 3711 or the equivalent. [0517-1]

4130. Government Regulation of Business. (3). The several approaches to legal and legislative control of business—especially tax laws, commission regulations, and anti-monopoly legislation—are considered in view of the impact of

each on industrial operating policy. PREREQUISITE: ECON 1010 or 2110. [0517-1]

4140. Industrial Organization. (3). The course is an economic analysis of two aspects of American industry: 1) an historical study of new industries, of the question of oligopoly market power, and of the impact of merger waves, and 2) an analysis of structure, conduct, and performance in industry using case studies in manufacturing, transportation and trade. PREREQUISITE: ECON 2120. [0517-1]

4340. Comparative Economic Systems. (3). An analytical study of the theoretical framework underlying major alternative economic systems—capitalism, socialism, communism, fascism—with the U.S., Sweden, the U.K., the U.S.S.R., and Spain used as examples. Attention is also directed to problems and difficulties associated with the integration of systems. PREREQUISITE: ECON 1010 or 2110. [0517-1]

4350. International Economics. (3). An historical approach to the theory of international trade, with consideration given to the techniques of control over investment and trade, foreign exchange, balance of payments, and world interdependence. PREREQUISITE: ECON 3610. [0517-1]

4410. Development of Economic Thought. (3). A critical study of the historical development of economic thought. Attention is focused primarily on the emergence of Classical and Neoclassical thought, the several dissident schools of thought, and twentieth-century economic thought. PREREQUISITE: ECON 1010 or 2110. [0517-1]

4511. Urban and Regional Economics. (3). A survey of the theory and problems of regional economic development and the evolving economic structure of urbanized areas. Analysis of the principles of the location of economic activity, interregional income and trade theory, and public policy for the development of regions. PREREQUISITE: ECON 1010 or 2110. [2204-1]

4610. Central Banking and Monetary Management. (3). A critical examination of the history and economic function of central banks. Analysis of the role of monetary policy in achieving predetermined objectives, with emphasis on the interrelationships of monetary policy, central banking, and the financial markets. PREREQUISITE: ECON 3610. [0504-1]

4720. Economics of the Public Sector. (3). The theory and practice of government expenditure, revenue, and debt, and the problem of integrating them into meaningful fiscal policy. Alternative forms of taxation are analyzed, especially from the standpoint of economic effects. PREREQUISITE: ECON 2120. [0504-1]

4750. Economics of State and Local Governments. (3). Fiscal operations at state and local government levels in the United States. Attention is given to state and local government tax structures particularly with special emphasis on property tax assessment and administration. Also a consideration of the fiscal relations of intergovernmental units, their expenditure elements, debt policy, budgeting, and financial administration. PREREQUISITE: ECON 1010 or 2110. [0504-1]

4810. Introduction to Economic Analysis I. (3). An introduction to the application of quantitative techniques of analysis to economic problems, including the identification of meaningful relationships, formulating usable quantitative statements about them, and developing relevant analytical methods. PREREQUISITES: one year of college mathematics and ECON 3310. [0517-1]

4820. Introduction to Economic Analysis II. (3). A continuation of Economics 4810 with emphasis on the more complex and involved relation-

ships of economic theory PREREQUISITE: ECON 4810. [0517-1]

4920. Senior Seminar in Economics. (3). A seminar coordinated by the Department Chairman and conducted by selected members of the Department and designed to integrate the several fields and course areas pursued by undergraduate majors into a meaningful whole. Required of all departmental majors in their last semester of undergraduate enrollment. [0517-1]

Graduate Courses in Economics: Some of the 4000 courses described in the preceding section may be taken for graduate credit at the 6000 level with the approval of the department chairman. For further details of the graduate program, see The Bulletin of The Graduate School.

FINANCE, INSURANCE AND REAL ESTATE

ASSOCIATE PROFESSOR DONALD A. BOYD,
Chairman

Room A 402, The College of Business Administration Building

Requirements for the major and minor are listed on page 60.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

FINANCE, INSURANCE AND REAL ESTATE (FIR) 1530

2220. Personal Financial Management. (3). General Elective. Non-technical course dealing with the broad areas of budgeting, insurance, borrowing and credit purchases, home ownership, investment, taxes, and family financial planning. Open to non-Business majors only. [0501-1]

3011. Business Law. (3). A course designed to familiarize the student with the elements of law and legal principles encountered by the businessman. Emphasis will be given to the basic law of contracts, sales and secured transactions, negotiable instruments, real and personal property, agency, forms of business organization, suretyship, insurance contracts and torts. [0501-1]

3130. The Legal, Social, and Political Environment of Business. (3). The central issue of this course is the legal, social, and political environment in which business and its executives exist. Students will be encouraged to gain a broad understanding of the legal, social, and political forces that affect business operations. Both lectures and case discussions will be utilized. [0501-1]

3310. Real Estate. (3). Real estate law, property description, methods of transferring property, joint ownership, tax sales and title to property, inheritance of real property. [0511-1]

3410. Business Finance. (3). An introduction to principles of financial management integrated with institutional finance. Current topics of managerial finance including working capital management, capital budgeting, and acquisition of funds are discussed. PREREQUISITE: ACCT 2020. [0504-1]

3710. Investments. (3). The principles of investment in stocks and bonds and their application to specific classes of investments. Both semesters. PREREQUISITE: ACCT 2020. [0505-1]

3720. Financial Markets. (3). A survey of the important funds markets, the institutions and characteristics peculiar to them. The sources of supply and of demand for funds in each market, and the complex interrelations between the several markets are carefully analyzed. [0504-1]

3810. Principles of Risk and Insurance. (3). Theory of risk, risk management, and insurance practice and problems in the fire, liability, automobile, marine, surety, life, health and accident lines. [0512-1]

4011. Law of Taxation and Planning of Estates. (3). A survey course of the law of taxation as applied to the transmission of property by gift or death and its impact upon accumulations of wealth. Estate planning from an individual viewpoint designed to create, maintain, and distribute the maximum estate possible. PREREQUISITE: FIR 3011 or consent of the instructor. [0501-1]

4310. Real Estate Law. (3). This course covers law and legal instruments as applied to real estate and is designed to serve the needs of property owners and those engaged in the real estate business. PREREQUISITE: FIR 3310. [0511-1]

4320. Real Estate Finance. (3). Examination and analysis of the source of funds for financing all kinds of real estate transactions, including FHA and VA types. PREREQUISITE: FIR 3310. [0511-1]

4330. Determinants in Housing Finance. (3). Consideration of determinants of private and public demand for housing; the relationships between construction and economic trends; new town legislation, urban renewal and development, improving environment and housing for low income groups, criteria for assessing public policy, policy implementation; the role of a private enterprise in developing, maintaining and improving housing. PREREQUISITE: FIR 3310. [0511-1]

4340. Real Estate Appraisal. (3). The fundamentals of appraising residential, commercial, and industrial real estate. PREREQUISITE: FIR 3310. [0511-1]

4350. Real Estate Investment Analysis. (3). Real Estate investment principles and practices will be reviewed, analyzed and evaluated. Emphasis will be placed on tax considerations, investment strategy and model building. PREREQUISITE: FIR 3310. [0511-1]

4440. Managerial Finance. (3). Analytical approaches to the firm's financial decisions; including current asset management, capital budgeting, the cost of capital, capital structure determination, and dividend policy. PREREQUISITE: FIR 3410. [0504-1]

4550. International Finance. (3). Financing international trade and investments; foreign exchange markets and exchange rates; the balance of payments; current developments in international financial cooperation. [0504-1]

4610. Cases in Managerial Finance. (3). A case course emphasizing the application of tools and principles introduced in previous courses to develop up-to-date problem solving techniques: Cases are approached from the standpoint of top level management and utilize both quantitative and qualitative analysis. PREREQUISITE: FIR 4440 or consent of the instructor. [0504-1]

4720. Operations and Management of Financial Institutions. (3). This course is designed to provide exposure to the financial policies and decision-making that are peculiar to financial institutions in the United States. The profitable management of funds consistent with adequate standards of liquidity and solvency. PREREQUISITES: ECON 3610, FIR 3410, and FIR 3720, or consent of the instructor. [0504-1]

4770. Security Analysis and Portfolio Management. (3). A development of techniques for finding the actual worth of securities, primarily stocks and bonds. Portfolio management involves selection, timing, diversification, and other aspects of supervising investment funds. PREREQUISITE: FIR 3710. [0505-1]

4790. Internship in Real Estate. (3). Seniors majoring in real estate with the approval of the department faculty, are placed with real estate firms to work in the areas of real estate sales, brokerage, finance, development, appraisal and property management. Spring semester only. PREREQUISITES: a minimum of 9 hours in real estate courses and senior standing. [0511-8]

4810. Property and Casualty Insurance. (3). The forms and functions of fire, marine, automobile, general liability, and other types of property and casualty insurance with emphasis on their application to commercial and industrial occupancies. A survey of current underwriting practice. PREREQUISITE: FIR 3810. [0512-1]

4820. Life and Health Insurance. (3). The functions of life and health insurance with emphasis upon the need for insurance and the service of life and health insurance to the American family and community. A study of the mechanics of private and public insurance and annuities. PREREQUISITE: FIR 3810. [0512-1]

4840. Functional Aspects of Property and Liability Insurance Carriers. (3). Company and industry functions other than contracts, including rating, rate-making, reserves, auditing, underwriting, reinsurance, claims, production engineering, and governmental supervision. PREREQUISITE: FIR 3810. [0512-1]

4850. Social Insurance. (3). The nature and causes of economic insecurity in our society with emphasis on the broader aspects of public and private programs: the Social Security Act, Unemployment Compensation, Workmen's Compensation, Medicare and other approaches. The course de-emphasizes detailed facts and statistics which are otherwise readily available from various governmental agencies. [0512-1]

4860. Employee Benefit Programs. (3). An analysis of tax deferred employee compensation plans. Included are pension, profit-sharing, annuity, stock purchase and other incentive or retirement plans. Group insurance and Social Security programs are considered. [0512-1]

4870. Risk Management. (3). Problems of the risk manager in small and large firms, methods of handling risk that serve as alternatives to obtaining insurance, and a brief survey of insurance as a standard for comparisons. [0512-1]

4910. Problems in Finance, Insurance, or Real Estate. (1-3). Students will carry on approved research projects in his major area under supervision of staff members. PREREQUISITE: senior standing and permission of the department chairman. [0501-8]

Graduate courses in Finance, Insurance, and Real Estate: Some of the 4000 courses described in the preceding section may be taken for graduate credit at the 6000 level. For further details of the graduate program see The Bulletin of The Graduate School.

MANAGEMENT

PROFESSOR BRUCE D. McSPARRIN, *Chairman*
Room 202, The College of Business Administration Building

Requirements for the major and minor in management are listed on page 61.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

1550 MANAGEMENT (MGMT)

1010. Introduction to Business. (3). A survey course to acquaint business students with the major institutions and practices in the business

world. Management fields include such areas as personnel management, labor-management relations, and production management. Other major fields include such areas as business law, accounting, finance, and marketing. The course is designed to provide the elementary concepts of business, to act as an orientation course for selection of a specific major, and to provide information on business career opportunities. Open to freshmen only. NOTE: If taken by students with 25 hours or more, credit will not count for BBA Degree. [0501-1]

2750. Introduction to Data Processing Systems. (3). This course is designed to give an introduction to the characteristics of electronic machines and their potential uses. Emphasis is placed on the area of: data equipment operation; the concepts of programming as required by an appropriate business related computer language; data processing equipment acquisition and use; and, the data processing organization. The objective is to equip the student to communicate with data processing personnel but not, in itself, to prepare the student for technical employment in the field. [0703-1]

3110. Organization and Management. (3). An examination of the management functions and the basic concepts and principles of management. Topics to be covered include planning, decision-making, organization, coordination and control, and the basic elements of production management. PREREQUISITE: junior standing or permission of the department chairman. [0506-1]

3215. Industrial Relations. (3). This course is designed to provide the manager with an understanding of the role played by the modern labor organization. Included are early efforts of workers to organize, factors which hampered growth of labor unions, and identification of labor leaders. Growth and development of local unions and giant labor federations is traced. Internal policies and tactics of local unions are analyzed. PREREQUISITE: MGMT 3110. [0516-1]

3710. Business Statistics I. (3). An introduction to the procedures for the collection, analysis, presentation, and interpretation of business and economic data. Topics include a comprehensive coverage of probability theory and business decision making under conditions of uncertainty. PREREQUISITE: MATH 1203 or higher and junior standing. [0503-1]

3711. Business Statistics II. (3). An extension of the range of topics covered in Business Statistics I. Topics to be covered include the application of techniques of sampling theory, hypothesis testing, time-series analysis, and regression and correlation techniques, both simple and multiple. PREREQUISITE: MGMT 3710. [0503-1]

3810. Manpower Program Planning. (3). A study of the planning of programs designed to solve manpower problems. Major topics include an overview of manpower as a field of study, historical development of manpower policy and legislative efforts to relieve manpower problems, methods of manpower research, goals of manpower planning, and approaches and techniques of manpower planning. PREREQUISITE: MGMT 3110. [0506-1]

3811. Manpower Program Administration. (3). A study of the administration of programs designed to solve manpower problems. Major topics include management of manpower program units, special income and employment groups in the labor force, types of manpower programs, delivery of manpower services, coordination of programs among manpower agencies, and evaluation of manpower programs. PREREQUISITE: MGMT 3110. [0506-1]

4210. Personnel Administration. (3). Employer-employee relationship; job analysis; recruitment, selection, training, transfer, promotion,

and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. **PREREQUISITE:** MGMT 3110. [0506-1]

4220. Collective Bargaining. (3). Labor-management relations from the standpoint of collective bargaining contracts, with emphasis on the process of negotiating agreements, including procedures, tactics, and subject matter. **PREREQUISITE:** MGMT 3110. [0516-1]

4230. Labor Legislation. (3). Historic and philosophical background of labor legislation with emphasis on recent legislation in the labor area and the effect of these laws on social and economic institutions. **PREREQUISITE:** MGMT 3110. [0516-1]

4240. Compensation Administration. (3). Systematic examination of the administration of wage and salary as a tool of management. Through the use of job descriptions, job analysis, and job evaluation methods instruction is given in the techniques of rationalizing wage structures. Analyses of some of the outstanding considerations which must be taken into account in installing and administering wage programs are made. **PREREQUISITE:** MGMT 3110. [0506-1]

4420. Human Relations in Organizations. (3). A study of human relations as applied to people at work in all kinds of organizations. Emphasis is placed on the understanding of human behavior and the motivation of employees to work together in greater harmony. Topics to be covered include fundamentals of organizational behavior, leadership and its development, organizational environment, and communication and group processes. **PREREQUISITE:** MGMT 3110. [0515-1]

4510. Production Management. (3). A course devoted to the development of scientific management, organization of the production function, operation and control of production systems, application of the analytical methods of cost analysis, simulation, and statistical analysis. Application of schematic analysis to production will also be covered. **PREREQUISITES:** MGMT 3110 and 3711. [0506-1]

4710. Business Policy. (3). Advanced problems in policy evaluation, determination, execution, administration, and control. Policy objectives in integration of product, marketing, manufacturing, finance, and organization. **PREREQUISITES:** MGMT 3110 and senior standing in the College of Business Administration. Course should be taken in either last or next to last semester before graduation. [0501-1]

4711. Intermediate Statistical Analysis. (3). An in depth study of business decision making using advanced statistical concepts including additional probability distributions, use of samples and sample design, non-parametric methods, and advanced techniques of analysis through use of correlation analysis and analysis of variance. Computerized statistical programs will be utilized to solve complex problems. **PREREQUISITES:** MGMT 2750 and MGMT 3711. [0506-3]

4750. Computer Programming Principles and Applications. (3). A course emphasizing the programming of electronic digital computers through use of the COBOL programming language. The students will be required to program and run several business oriented problems in the COBOL language. **PREREQUISITES:** junior standing, MGMT 2750 and one college level mathematics course or permission of the instructor. [0704-3]

4760. Operations Research. (3). An introductory study of decision-making which concentrates on the model building process within the decision theory framework. The electronic computer will

be used where appropriate to solve problems of linear programming, waiting line theory, simulation, game theory, and other statistical problems of a business and economic nature. **PREREQUISITE:** MGMT 3711 or consent of instructor. [0705-3]

4780. Systems Design for Business Activities. (3). Emphasis will be given to computer systems design for typical business applications involving the automation of business activities. This course will concern estimates of computer requirements, organizational arrangement, planning the total system, flow-charting, conversion problems, cost and performance evaluation. The objective is to simulate the middle level executive role in the transition and integration of business operations into computer oriented systems. **PREREQUISITES:** MGMT 2750 and 3711. [0705-3]

4790. Management Information Systems. (3). Problems and techniques concerning the design and installation of responsive systems will be brought together with special attention to the executive use of the system's product. System approaches utilizing current planning and control models will be studied through current literature and texts in the computer field. **PREREQUISITES:** MGMT 2750 and one college level mathematics course; junior standing, or permission of the instructor. [0506-1]

4810. International Management. (3). Constructed to provide fundamental knowledge of contemporary managerial problems as presented in a foreign-influenced environment. Uniqueness of problems in planning, control, choosing foreign associates, plan location, labor, bureaucracy, legal constraints, and trade with foreign governments will be highlighted by texts and through discussion of articles from current business periodicals. **PREREQUISITES:** MGMT 3110 and MKTG 3010. [0506-1]

4820. Venture Initiation Management. (3). The course examines the initiation process of a new business venture. Participants as teams will develop a detailed development plan covering all phases of business initiation and development. **PREREQUISITE:** completion of 3000 level Business Administration Core Courses or consent of the instructor. [0506-1]

4910. Management Problems. (1 to 3). Student will carry on approved research projects in his major area under supervision of staff members. **PREREQUISITE:** senior standing and permission of the department chairman. [0506-8]

Graduate courses in Management: Some of the 4000 courses described in the preceding section may be taken for graduate credit at the 6000 level. For further details of the graduate program see The Bulletin of The Graduate School.

MARKETING

PROFESSOR HARRY HARMON SUMMER,
Chairman

Room 302, The College of Business Administration
Building

Requirements for the major and minor in marketing are listed on page 61.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

1560 MARKETING (MKTG)

3010. Basic Marketing. (3). General survey of the marketing structure; development, functions, costs, institutions and pricing. **PREREQUISITE:** junior standing or permission of the department chairman. [0509-1]

3012. Consumer Behavior. (3). The study of why consumers behave as they do. Psychological and sociological theories and principles are applied to current marketing problems. [0509-1]

3140. Advertising Fundamentals. (3). Survey of the field of advertising including agencies, media, layout, copy, typography. **PREREQUISITE:** MKTG 3010 or permission of the instructor. [0604-1]

3170. Advertising Problems. (3). A case study of the advertising functions, emphasizing the determination of advertising strategy; the planning of creative strategy; planning of media strategy; evaluation of advertising results and an introduction into organization and management of the advertising function. **PREREQUISITE:** MKTG 3140. [0604-1]

3220. Industrial Marketing. (3). A comprehensive survey of the industrial market—products, structure and functioning. An examination of those segments of the industrial market concerned with agricultural raw materials and products purchased by governmental agencies is also included. **PREREQUISITE:** MKTG 3010. [0509-1]

3320. Retailing Fundamentals. (3). An examination and evaluation of the changing concepts of retailing from a management view point. A study of the principles that underlie the successful operation of enterprises distributing products and services to ultimate consumers. **PREREQUISITE:** MKTG 3010 and ACCT 2010 or permission of the department chairman. [0509-1]

3330. Retail Merchandising Management. (3). The buying function at the retail level is studied with emphasis on the selection, timing, pricing, merchandising, and control of the inventory investment. Long- and short-range objectives and policies are considered as they affect merchandise investment. **PREREQUISITE:** MKTG 3320. [0509-1]

3410. Sales Fundamentals. (3). Covers the basic essentials of salesmanship, sales theory, sales techniques and sales role playing. The history of selling and the salesman's role in our economy are included to provide a deeper understanding of the contributions made by the American salesman. [0509-1]

3430. Sales Promotion. (3). This course is designed to acquaint students with the vast and often unassigned area of marketing that exists between advertising and personal selling. This course brings into focus the vital marketing functions that must be performed by manufacturers or middlemen as products flow down the channels of distribution. **PREREQUISITE:** MKTG 3010 or permission of the department chairman. [0509-1]

3510. Marketing of Services. (3). Study of the structure and organization of service firms. Attention will be given to the role of offering, pricing, place and promotion of services with emphasis on the problem of intangibility and image. **PREREQUISITE:** MKTG 3010. [0509-1]

3520. Contractual Marketing Systems. (3). The objective of this course is to acquaint the student with the expanding role of franchising and other contractual and legal arrangements utilized in the marketing of products and services. **PREREQUISITE:** MKTG 3010. [0509-1]

3610. Transportation Fundamentals. (3). An introductory examination of the economic, social, and political aspects of the transportation system of the United States. Includes study of the various modal components (rail, highway, air, pipeline, and water transportation) and internal constraints. **PREREQUISITE:** MKTG 3010. [0510-1]

3620. Logistics Planning and Analysis. (3). Study of the interrelationships among production, marketing, and financial management as they im-

pact the flow of raw materials and finished goods through the firm. Investigates such managerial activities as inventory control, warehousing location and operation, packaging, transportation alternatives, information processing and integrates the various components into a total logistics system design. PREREQUISITE: MKTG 3610. [0510-1]

3630. Traffic Management. (3). Detailed analysis of the freight traffic function within the firm's logistics system. Includes an examination of rate and classification systems, claim liability, shipping document procedures, carrier selection, and other aspects associated with organizing and operating a traffic department. PREREQUISITE: MKTG 3610 or permission of department chairman. [0510-1]

4080. Marketing Research. (3). Research methods and procedures used in the field of marketing to help solve business problems. PREREQUISITES: MGMT 3710 and six (6) hours of Marketing including MKTG 3010. [0509-1]

4150. Advertising Media and Campaigns. (3). An investigation of the characteristics and uses of media by companies, products lines and reasons for selection. The last part of both semesters will be devoted to the development of a campaign for a particular firm. PREREQUISITE: MKTG 3140. [0509-1]

4220. Purchasing. (3). A study of the policies for effective and efficient procurement of goods and services for today's industry. Close attention will be given to the measurement and evaluation of purchasing performance. PREREQUISITE: MKTG 3010. [0509-1]

4320. Retail Operations Management. (3). Operational aspects of the retail firm, including store location, layout, merchandise handling, customer services, asset protection, personnel, and expense control are studied. The various means of improving efficiency and productivity are emphasized. PREREQUISITE: MKTG 3320. [0509-1]

4330. Credit and Collections. (3). A study of the American credit system and collection methods used today, significance of credit information, management of charge accounts, credit and collection correspondence, mercantile credit and importance of credit to our economic well-being. PREREQUISITE: MKTG 3010. [0509-1]

4410. Sales Management. (3). A survey course designed to define and describe the major sales management functions and to provide controlled practical application of sales management functions through the utilization of the case study approach. Ultimately, the student gains an overview of the operation of marketing departments through the synthesis of three primary divisions of marketing management—sales administration, sales personnel activities, and sales control. PREREQUISITE: MKTG 3410. [0509-1]

4420. Sales Training. (3). This course covers one of the most important staff activities within any marketing department—the training of sales personnel. Designed to develop salesmanship, the art of persuasion, into a teachable subject which will apply to the business world. Student is taught and self-taught, how to become a sales trainer and to develop an understanding of the training director's responsibilities. PREREQUISITE: MKTG 3410. [0509-1]

4530. International Marketing. (3). A study of the bases and promotion of foreign trade; international marketing organizations and methods; technical and financial features of international marketing. PREREQUISITE: MKTG 3010. [0513-1]

4610. Transportation and Policy Alternatives. (3). Transportation policy alternatives and problems are viewed in relation to their effects on carriers, transport users and the general public. Investigation into the evolution of public control and

promotion in transportation including an examination of the role of the regulatory commissions. PREREQUISITE: 6 hours in transportation and logistics courses or permission of the department chairman. [0510-1]

4620. Carrier Management. (3). Analysis of problems confronting managers of transportation companies. Topics include carrier organization, operations, marketing strategies, finance, and control, sales, labor relations, and shipper-carrier interaction. PREREQUISITE: 6 hours in transportation and logistics courses or permission of department chairman. [0510-1]

4692. Seminar in Transportation and Logistics. (3). Seminar devoted to the study of problems in transportation and logistics. PREREQUISITE: 9 hours in transportation and logistics courses or permission of the department chairman. [0510-1]

4901. Marketing Strategies. (3). Comprehensive study of marketing strategies and how they may be implemented. Computer games and cases as well as "real-world" problems are used to illustrate the application of marketing concepts in a practical manner. PREREQUISITES: MKTG 3012, MKTG 3610, and MKTG 4080. [0509-1]

4910. Problems in Marketing. (1-3). Students will carry on approved research projects in their major area under the supervision of staff members. PREREQUISITE: senior standing and permission of the department chairman. [0509-8]

4991. Marketing Internship. (3). Seniors majoring in marketing may, after receiving approval of the department chairman and professor concerned, obtain actual experience by working a minimum of 200 hours in approved marketing positions. Student may not be enrolled for more than 12 academic hours when enrolling for credit in work experience. [0509-8]

Graduate courses in Marketing: For details of the graduate program see The Bulletin of The Graduate School.

OFFICE ADMINISTRATION

PROFESSOR HERMAN F. PATTERSON,
Chairman

Room 300, The College of Business Administration Building

Requirements for the majors and minors in office administration-secretarial and in office administration-management are listed on page 52.

NOTE: In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The College of Business Administration.

1570 OFFICE ADMINISTRATION (OFAD)

1210. Elementary Typewriting. (3). Use and operation of the parts of the typewriter, mastery of the keyboard, simple business and professional letters and reports, introduction to tabulations. [0514-1]

1220. Intermediate Typewriting. (3). The typing of different styles of business letters, tabulations, and manuscripts; developing a typing rate of 45 words or more per minute. [0514-1]

2120. Fundamentals of Shorthand. (3). Basic principles of Gregg shorthand—alphabet, brief forms, phrases, and abbreviations; beginning dictation and pre-transcription training. Students who have completed one or more units of shorthand in high school may not take Office Administration 2120 for credit. [0514-1]

2130. Intermediate Shorthand. (3). Review of shorthand theory, acquisition of ability to take shorthand and to transcribe accurately. PREREQUISITES: OFAD 1220 or equivalent; OFAD 2120 or equivalent. [0514-1]

3140. Advanced Shorthand. (3). Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. PREREQUISITE: OFAD 3250 or OFAD 1220. [0514-1]

3250. Advanced Typewriting. (3). Review of business letter styles, manuscripts and reports, statistical tables. Development of a typing rate of better than 60 words per minute. PREREQUISITE: OFAD 1220. [0514-1]

3510. Business Communication. (3). The fundamentals of business communication are examined and studied with a view to a thorough understanding of the techniques of report writing and of some of the basic forms of letters. Emphasis is placed on the writing of reports, financial statements, minutes of meetings, abstracts, and specific types of routine letters. Attention is also given to selection and use of research mediums. PREREQUISITE: Completion of freshman English plus the ability to type. [0514-1]

4161-4163. Technical Dictation. (3).
Only one may be taken for credit.
PREREQUISITES: OFAD 1220, OFAD 2130.

4161. Legal: Review of Gregg shorthand theory, shortcuts, vocabulary needed to be a legal stenographer. [0514-1]

4162. Medical: Review of Gregg shorthand theory, shortcuts, vocabulary peculiar to the medical profession. [0514-1]

4163. Scientific: Review of Gregg shorthand theory, special scientific vocabulary and terminology. [0514-1]

4270. Secretarial Typewriting and Office Machines. (3). Instruction and practice in use of secretarial office machines including executive typewriters; transcribing from voicewriting equipment; ink, spirit and offset duplication; copying machines. *Four hours per week.* PREREQUISITE: OFAD 3250. [0514-1]

4320. Applied Secretarial Practice. (3). Qualifications, duties and training of a secretary; requirements for employment; organization of work; telephone etiquette; business reference books; receptionist techniques. [0514-1]

4330. Records Management and Control. (3). Handling of incoming and outgoing mail; filing procedures; installation, administration, and control of geographic, numeric, subject and Soundex filing systems; practice in the several types of filing. [0514-1]

4340. Office Model Simulation. (3). This course is designed to provide a realistic office-like situation for training students to be secretaries or business education teachers. Students assume the role of "employee" while performing interrelated tasks in the office model designed to simulate an actual office. *Four hours per week.* PREREQUISITES: OFAD 4270, OFAD 4320. [0514-1]

4400. Data Processing for Secretaries and Educators. (3). Introductory course in the operation and use of punched card equipment. The course provides a practice and study in key punching, sorting, card design, flow charting, systems analysis, and special applications relating to school and office. Laboratory experience on both unit record equipment and computers is provided. [0514-1]

4410. Office Management. (3). Modern methods used in office organization and management, scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling the mail, planning procedures, planning for

equipment, office machines, automation, planning for office space, physical working conditions and office layout. [0514-1]

4910. Problems in Office Administration. (1-3). Students will engage in directed individual

study in their major area under the supervision of staff members. **PREREQUISITE:** permission of the department chairman. [0514-8]

Graduate Courses in Office Administration—Office Management: Certain of the 4000 courses,

described in the preceding section, may be taken for graduate credit at the 6000 level. For further information concerning the graduate program, see The Bulletin of The Graduate School.

THE COLLEGE OF COMMUNICATION AND FINE ARTS

ART

PROFESSOR DANA DOANE JOHNSON,
Chairman

Room 201, Jones Hall

Requirements for the major and minor in art are listed on page 68; the program for the Bachelor of Fine Arts degree is outlined on page 65.

Important Note: Transfer students seeking advanced standing in art are required to submit a portfolio.

K020 ART (ART)

1101. Introduction to Art. (3). An introduction to the fundamental principles of the fine arts, aimed at providing an understanding of art products and processes as a basis for judgment and enjoyment of all types of art expression. [1002-1]

1201. Basic Design. (3). Basic design factors of line, value, texture, form, and space presented in a problem solving approach for the purpose of stimulating the student's visual perception and for encouraging inventive manipulation of tools, materials, and techniques. Development of a vocabulary for professional practice is encouraged through lectures, discussions, and class critique. [1002-1]

1204. Color Fundamentals. (3). A study of light and color in relation to form. The mixing of colors and the notation of hue, value, chroma relationships. A study of the interaction of color; color harmony, psychology, and symbolism in a variety of mediums. PREREQUISITE: ART 1201. [1002-1]

1311. Beginning Drawing. (3). An introduction to the materials and techniques of basic drawing. [1002-1]

1314. Figure Structure. (3). Analysis of the structure of the human figure with emphasis on contour, gesture, and volume. PREREQUISITE: ART 1311. [1002-1]

2101. World Art I. (3). The development of the visual arts from prehistoric times through the medieval period; their use by man as a social, cultural, and educational force; brief survey of the art of the Far East. [1003-1]

2102. World Art II. (3). Continues (but does not presuppose) World Art I; a survey of the development of the visual arts from the medieval period through the Renaissance to the present. [1003-1]

2201. Design. (3). A continued study of the elements of design, using a variety of materials and methods. PREREQUISITES: ART 1201 and 1204, or permission of the instructor. [1009-1]

2202. Design. (3). A continuation of Art 2201, with attention given to three-dimensional problems in design. PREREQUISITE: ART 2201, or permission of the instructor. [1009-1]

2213. Lettering and Layout. (3). An introduction to graphic design: problems involving the use of typography; principles and techniques of layout; and the development of roughs and comprehensives. [1002-1]

2221. Graphic Production. (3). The preparation of copy for photomechanical reproduction: printing processes, halftone and line reproduction, the selection and use of type and paper. [1009-1]

2231. Interior Design. (3). A survey of the field of interior design and some of its underlying principles. PREREQUISITE: ART 1204. [1009-1]

2232. Interior Design. (3). A continuation of Art 2231, with emphasis on spatial relations. PREREQUISITE: ART 2231, or permission of the instructor. [1009-1]

2311. Perspective. (3). Theory and practice of perspective projection and its various applications. [1002-1]

2313. Drawing. (3). Advanced problems of communication through exploration of varied graphic media and methods. PREREQUISITES: ART 1311 and 1314, or permission of the instructor. [1002-1]

2314. Drawing. (3). A continuation of Art 2313, with emphasis on personal expression. PREREQUISITE: ART 2313, or permission of the instructor. [1002-1]

2351. Printmaking. (3). An introduction to basic printmaking processes: relief, intaglio, planograph. [1002-1]

2511. Sculpture. (3). An introduction to the basic materials and techniques of sculpture. [1002-1]

3101. History of Interior Architecture and Furniture. (3). Survey of interior architecture, furniture design, and decorative arts from the Egyptian era to the 18th century. [1003-1]

3102. History of Interior Architecture and Furniture. (3). Survey of interior architecture, furniture design, and decorative arts from the 18th century to the present day. [1003-1]

3221. Graphic Design. (3). An introduction to the methods and materials of graphic design, with problems which utilize visual communication. PREREQUISITES: ART 2213 and d2221. [1009-8]

3222. Graphic Design. (3). A continuation of Art 3221, offering further study in the techniques of newspaper, magazine, and direct-mail layout. PREREQUISITE: ART 3221. [1009-8]

3223. Packaging and Display. (3). A study of package designing and display techniques. PREREQUISITES: ART 2213 and 2221. [1009-8]

3224. Creative Photography. (3). Study and practice of photographic techniques in relation to the field of art. Emphasis is on photography as an art medium. PREREQUISITE: permission of the instructor. [1011-8]

3231. Interior Design. (3). Practical problems to interior architecture and design. PREREQUISITE: ART 2232 or permission of instructor. [1009-8]

3232. Interior Design. (3). A continuation of Art 3231, offering further study in interior organization and the designing of residential and commercial interiors. PREREQUISITE: ART 3231 or permission of instructor. [1009-8]

3331. Painting. (3). A preliminary course in the theory and practice of oil painting. [1002-8]

3332. Painting. (3). A continuation of Art 3331 with special attention given to the essentials of still-life, landscape, and portrait painting. [1002-8]

3351. Printmaking. (3). A continued study in the graphic arts with further emphasis on woodcut and etching. PREREQUISITE: ART 2351, or permission of the instructor. [1002-8]

3352. Printmaking. (3). A continuation of Art 3351 with emphasis turning to personal expression. PREREQUISITES: ART 2351 and 3351, or permission of the instructor. [1009-8]

3411. Art Experiences for Elementary Teachers. (3). An introductory course in the development of skills and methods in the school art program, with emphasis on materials and ideas important to children's art expression and growth. [0831-1]

3413. Materials and Methods In Teaching Elementary School Art. (3). Designed to aid future teachers in understanding child art, encouraging art expression, and preparing art teaching materials for children. PREREQUISITES: ART 1101 (or 2101 and 2102) and 3411. [0831-1]

3421. Art Experiences for Secondary School Art Teachers. (3). Designed to familiarize secondary art teachers with art crafts in a secondary school art program and to allow them to work with equipment, supplies, processes, and ideas in an art craft program. PREREQUISITE: ART 2202 or 3411, or permission of the instructor. [0831-1]

3511. Sculpture. (3). The problems of sculptural form as expressed in metal, wood, and related materials. [1002-8]

3512. Sculpture. (3). A continuation of ART 3511 with further emphasis on techniques. [1002-8]

3523. Ceramics. (3). An introduction to clay and ceramic process. Emphasis is to be placed on a thoughtful, purposeful exploration of medium, regarding both the pottery vessel and the non-vessel object. NOTE: Students who have received credit for ART 3521 will not be allowed credit for ART 3523. [1009-8]

3524. Ceramics. (3). A continuation of Art 3523. Some consideration will be given to fundamental historical and aesthetic aspects peculiar to ceramics as a studio medium. NOTE: Students who have received credit for ART 3522 will not be allowed credit for ART 3524. [1009-8]

3541. Packaging and Display. (3). A continuation of Art 3223 with attention given to trademark designs, package rendering and practical displays. PREREQUISITE: ART 3223. [1009-8]

4101. History of Graphic Design. (3). A survey of major trends and developments in the field of graphic design: typography, illustration, photography, reproduction technology and broadcast media. [1003-1]

4111. Prehistoric Art. (3). An examination of the art products of the various Paleolithic, Mesolithic, Neolithic, Bronze, and Iron Age cultures, with emphasis given to Franco-Cantabrian Cave Paintings and Megalithic Architecture. [1003-1]

4121. Ancient Art of the Near East. (3). A study of architecture, sculpture, painting and the minor arts in Egypt and the Ancient Near East. [1003-1]

4122. Greek and Roman Art. (3). A study of the architecture, sculpture, and painting from Aegean art to the fall of the Roman Empire. [1003-1]

4131. Early Christian and Byzantine Art. (3). The development of architecture, sculpture, and painting through the early medieval period, with emphasis on early Christian and Byzantine art. [1003-1]

4134. Romanesque and Gothic Art. (3). The development of architecture, sculpture, and painting from the Carolingian (Proto-Romanesque) Period through the Gothic Period. [1003-1]

4141. Italian Renaissance Art. (3). Survey of the architecture, sculpture and painting of Italy, 1300-1550. [1003-1]

4142. Northern Renaissance Art. (3). Fifteenth century art in Northern Europe with emphasis on panel painting, manuscript illumination and printmaking. [1003-1]

4146. Baroque Art. (3). An historical study of the architecture, sculpture, and painting from the end of the Renaissance to the industrial Revolution. [1003-1]

4151. Nineteenth-Century Art. (3). A study of the art movements of the nineteenth century from Neo-Classicism to impressionism. [1003-1]

4154. Twentieth-Century Art. (3). A study of the major art developments from Post-impressionism to the present. [1003-1]

4162. Spanish Colonial Art. (3). A study of the arts in South America, Mexico, and the United

States during the period of Spanish Rule. Chiefly, a survey of Baroque art in the Americas. [1003-1]

4163. Pre-Columbian Art. (3). A survey of the ancient art of Mexico, Central America and South America from about 1000 B.C. to European contact. [1003-1]

4165. Art of the American Indian. (3). A survey of the arts of the North American Indians from prehistory to the present. [1003-1]

4167. Art in America I. (3). A survey of American art: architecture, sculpture, painting, and the minor arts within the continental United States from prehistoric times to the Civil War. [1003-1]

4168. Art in America II. (3). A continuation of Art 4167: architecture, sculpture, painting and the minor arts in the continental United States from the Civil War period to the present. [1003-1]

4171. Oriental Art: India. (3). Artistic traditions and monuments of India from the Indus Valley period to the 19th century as related to Hinduism, Buddhism and Islam; the influence of these traditions on Southeast Asia. [1003-1]

4172. Oriental Art: China and Japan. (3). Artistic traditions and monuments of China and Japan from the prehistoric period to the 19th Century as related to Confucianism, Taoism, Buddhism and Shinto. [1003-1]

4181. Primitive Art. (3). A survey of the art of the primitive Negro of Africa, the aboriginal peoples of Oceania, and the American Indian. [1003-1]

4201. Advanced Design—Plastics. (3). A course in two-dimensional and three-dimensional design in plastics employing the basic methods of casting resins and thermoheating processes using sheet, rod, and tube plastics. [1009-8]

4202. Advanced Design—Plastics. (3). Further development in creative plastics design through thermoheating process of vacuum forming, blow forming, and resin casting processes. [1009-8]

4203. Advanced Design—Kinetics. (3). A studio course in the application of light, sound and motion to works of art emphasizing an exploration of the various technological advances such as, motorization and techni-media which create motion and/or time related effects. PREREQUISITES: ART 1201, 1204, 2201, 2202. [1009-8]

4204. Advanced Design—Kinetics. (3). This is a continuation of Art 4203 in which more advanced work is done in Kinetic Design. PREREQUISITE: ART 4203. [1009-8]

4205. Advanced Design—Continuous Pattern Processes. (3). A study of design with emphasis on both the theoretical and practical approaches to continuous pattern processes using various media and processes techniques. PREREQUISITES: ART 1201, 1204, 2201, 2202. [1009-8]

4206. Advanced Design—Continuous Pattern Processes. (3). This is a continuation of ART 4205 in which advanced work is done in constructed pattern processes. PREREQUISITE: Art 4205. [1009-8]

4221. Graphic Design. (3). Advanced problems in the fields of advertising and merchandising design. PREREQUISITE: ART 3222 or permission of the instructor. [1009-8]

4222. Graphic Design. (3). The study and execution of graphics for television, incorporating animation and design for the video environment. PREREQUISITE: ART 4221 or permission of the instructor. [1009-8]

4224. Creative Photography. (3). A continuation of Art 3224, covering the historical development

of the medium and contemporary techniques. Emphasis will be placed on photography as an individual means of expression. [1011-8]

4231. Interior Design. (3). Advanced study in interior design. Problems in designing complete interiors for homes and commercial structures. PREREQUISITE: ART 4234. [1009-8]

4232. Interior Design. (3). A continuation of Art 4231 with further problems in home and commercial interiors. PREREQUISITE: ART 4231, or permission of instructor. [1009-8]

4233. Interior Rendering. (3). Professional techniques in the rendering of interiors and the construction of models. [1009-8]

4234. Interior Rendering. (3). A continuation of Art 4233 with further emphasis on rendering techniques. [1009-8]

4235. Interior Design Research. (3). Intensive study of special areas of interior design with emphasis on space planning and lighting. PREREQUISITE: ART 3232, or permission of the instructor. [1009-8]

4236. Interior Design Research. (3). Continuation of Art 4235 with emphasis on furniture design and construction. PREREQUISITE: ART 4235, or permission of the instructor. [1009-8]

4321. Drawing and Painting. (3). An advanced course in drawing and painting methods with emphasis on transparent watercolor. PREREQUISITE: ART 2321 or permission of instructor. [1002-8]

4322. Drawing and Painting. (3). A continuation of Art 4321 with attention given to various mixed media. PREREQUISITES: ART 2321 and 4321 or permission of instructor. [1002-8]

4331. Painting. (3). A consideration of advanced problems in oil painting, presupposing that the student has mastered basic techniques and is ready for a more experimental approach to the subject. PREREQUISITES: ART 3331 and 3332, or the permission of the instructor. [1002-8]

4332. Painting. (3). A continuation of Art 4331 with emphasis on the development of a personal style. PREREQUISITES: ART 3331, 3332, and 4331, or permission of the instructor. [1002-8]

4341. Illustration. (3). A survey of the many areas requiring the services of an illustrator and including the preparation of book, magazine, advertising, and television illustrations. [1002-8]

4342. Illustration. (3). A continuation of Art 4341, dealing with analysis of fine art techniques of drawing and painting as they apply to commercial illustration. [1002-8]

4351. Printmaking. (3). Specialization in one or two graphic media. Students are encouraged to develop a personal imagery and the necessary technical abilities. PREREQUISITES: ART 2351, 3351, and 3352, or permission of the instructor. [1002-8]

4352. Printmaking. (3). This culminating course in the graphic arts in which work may be done in woodcut, etching, or lithography. PREREQUISITES: ART 2351, 3351, 3352, and 4351, or permission of the instructor. [1002-8]

4380. Museology. (3). (Same as Anthropology 4380). The history and development of museums; mandate and variety of institutions; significant research facilities; historical and contemporary collections, and the educational roles of museums in contemporary society. [1001-1]

4381. Art Curatorial Techniques. (3). Concentrates on curatorial responsibilities and functions: receiving and shipping methods, registration, physical and environmental security, research, conservation, and a study of the art market and publications. [1003-1]

4382. Museum Operation. (3). (Same as Anthropology 4382). Basic aspects of museum organization, management, exhibit planning and execution, and maintenance of collections and records. [1003-1]

4421. Materials and Methods in Teaching Secondary School Art. (3). (Same as Education 3321). Designed to aid future art teachers in understanding adolescent art expression and in preparing art teaching materials for the secondary school art program. PREREQUISITES: ART 3421 and 3424, or permission of the instructor. [0837-1]

4424. Woven and Constructed Fiber Design. (3). Study in the creative design of textile construction, including experimental and multi-harness weaving, rug-making techniques, macrame, applique, stitchery, crochet, knitting, and related processes. [1009-8]

4425. Woven and Constructed Fiber Design. (3). This is a continuation of Art 4424 in which more advanced work is done in constructed fiber design. [1009-8]

4511. Sculpture. (3). Advanced work in various sculptural media. PREREQUISITES: ART 2511, 3511, and 3512, or permission of the instructor. [1002-8]

4512. Sculpture. (3). A continuation of Art 4511 with emphasis upon personal expression. PREREQUISITE: ART 4511, or permission of the instructor. [1002-8]

4521. Ceramics. (3). Advanced studies in ceramic process and technique. Concentration will be on the development of personal attitudes toward work. [1009-8]

4522. Ceramics. (3). Continued efforts toward technical competence and the production of ceramic objects reflective of genuinely personal involvement. [1009-8]

4531. Jewelry. (3). Jewelry-making with emphasis on materials and equipment. The nature and possibilities of metals, stones and other materials are investigated in terms of good jewelry design. Basic projects in enameling, soldering, pickling, buffing, and other techniques. [1009-8]

4532. Jewelry. (3). A second course in jewelry-making and metal-work. Study and practice in good design. Work done in lost wax casting, champleve, cloisonne, and combinations of materials. [1009-8]

4551. Working Drawings and Professional Practice. (3). Detailing of interior construction and scheduling of finishes. PREREQUISITE: ART 3232, or permission of the instructor. [1009-8]

4552. Working Drawings and Professional Practice. (3). A continuation of Art 4551. PREREQUISITE: ART 4551, or permission of the instructor. [1009-8]

4611. Senior Problems. (3). Original research in the student's area of concentration, the extent of the project to be approved by the art faculty. [1003-8]

4621. Workshop In Art. (3). The study of specific art problems as they apply to the individual student with emphasis on basic art concepts and creative experience. PREREQUISITE: permission of the instructor. [1002-8]

4622. Workshop In Art. (3). A continuation of Art 4621, providing study of problems appropriate to the need of the individual student. PREREQUISITE: permission of the instructor. [1002-8]

4641. Study and Travel In Art. (3 or 6). Travel to important art areas of the world and specialized study under the direction of a faculty member of the Department of Art. [1003-8]

JOURNALISM

PROFESSOR HERBERT LEE WILLIAMS,
Chairman

Room 300, Meeman Journalism Building

Requirements for the major and minor in journalism are listed on page 68.

K260 JOURNALISM (JOUR)

1011. Survey of Mass Communication I. (3). Social background, scope, functions, and organization of modern communication media, with attention given to newspapers, magazines, motion pictures, radio, television, books, and comics. [0601-1]

1012. Survey of Mass Communication II. (3). The philosophy and goals of modern journalism: their development and impact upon governmental, social and economic systems. NOTE: Journalism 1012 may be taken before Journalism 1011. [0601-1]

NOTE: All journalism students must have typing proficiency before admission to courses numbered 2000 and above.

2111. Elementary News Writing. (3). A study of news story structure and the factors that determine the value of news, with consideration given to both the theoretical and practical aspects of news gathering and reporting; lecture and laboratory sessions. [0602-1]

2112. Reporting. (3). Gathering and writing news of the University community, with assignments arranged on *The Statesman*. PREREQUISITE: JOUR 2111. [0602-1]

2211. Typography. (3). A lecture-laboratory study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided opportunities to practice the effective use of type and illustration in mass communication. [0602-1]

2300. Survey of Advertising. (3). An exploration of the creative function of advertising with emphasis on the role of the media. [0602-1]

3011. Picture Editing. (3). Selection and arrangement of illustrative material for newspapers and magazines; analysis, use and influence of the news picture; techniques of the picture story; and the role of the picture magazine in the field of communication. [0602-1]

3111. Press Photography. (3). Taking pictures with the news camera, developing films, making enlargements, cropping and scaling for publication. Students may bring their own cameras. Open to non-majors with permission of the instructor. [1011-1]

3112. Editing I. (3). Practices in headline writing, editing, and newspaper makeup and study of contemporary editing problems. [0602-1]

3113. Editing II. (3). Continuation of Editing I with emphasis on practical application. Students are charged with the responsibility for the production of *The Statesman*. [0602-8]

3115. Interpretative Reporting. (3). Reporting of the significantly important news with attention to analysis, interpretation, and investigation. PREREQUISITES: JOUR 2112 and junior or senior standing. [0602-8]

3116. The Magazine. (3). Historical backgrounds, contents, purposes, and readership of general magazines, business and industrial papers and specialized journals. [0602-1]

3117. Magazine Editing and Production I. (3). Editing and production problems of magazines with emphasis on business, industrial, and home periodicals; headline and title writing, pictorial copy layout, staff organization, and production processes. PREREQUISITE: JOUR 3116, or permission of the instructor. [0602-1]

3118. Magazine Editing and Production II. (3). Internships in editorial offices of approved magazines published in Memphis to offer exposure to the duties, procedures, and skills demanded in editing successful company and business magazines. PREREQUISITE: JOUR 3117. [0602-8]

3121. Magazine Article Writing I. (3). An introduction to free-lance techniques. Students will study the magazine market, generate and research ideas, and prepare queries and articles for submission. [0602-8]

3122. Magazine Article Writing II. (3). Continuation of Magazine Article Writing I. [0602-8]

3210. Advertising Layout. (3). Basic techniques in laying out the printed advertisement; introduction to the use of advertising mat service in layout. Non-majors by permission of department chairman only. [0602-1]

3221. Advertising Copy Writing. (3). The principles of advertising psychology studied in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to practice in writing copy and in preparing rough layouts. [0602-1]

3222. Advertising Sales. (3). Practical experience in the preparation and selling of completed advertisements; the student will service his own clients throughout the semester, using *The Helmsman* as a space medium. PREREQUISITE: JOUR 3221. [0604-1]

3331. Radio and Television News Writing and Editing. (3). The processing of news for radio and television with attention to present-day style used by the electronic media. [0603-1]

3332. Trends in Broadcast Communication. (3). A survey in the history of radio and television, principles of transmission and reception of signals, governmental and self-imposed regulations, and the responsibility of the broadcaster; intended to develop an awareness of the social implications of radio and television. Guest lecturers, class discussion, and case histories relating to the current problems and policies in broadcasting. [0603-1]

3333. Radio and Television Reporting of Special Events. (3). Preparation and presentation of special programs such as news, sports, interviews, documentaries, etc. [0603-1]

3340. Cinematography. (3). Introduction to fundamentals of 16mm motion picture photography, with emphasis on shooting news film for local television stations. [1010-1]

4000. Advertising Internship. (3). Students will work under supervision in order to gain career experience in a local advertising agency, advertising department of a newspaper, television or radio station, or a company advertising department. NOTE: Students may not receive credit for both Journalism 4000 and Journalism 4242. PREREQUISITES: JOUR 3210, 3221. [0604-8]

4001. Mass Communication Law and Professional Ethics. (3). Origin and development of the legal principles affecting freedom of expression, and provisions of the laws of libel, slander, copyright, and other statutes limiting communication in the fields of publishing and broadcasting. [0601-1]

4002. Writing Projects. (3). Internship for students who have completed basic journalism courses or whose experience has prepared them to handle the duties; students will work in practical assignments or will do approved research in journalism. [0602-1]

4003. Writing Projects. (3). Continuation of Journalism 4002. [0602-1]

4005. History of Journalism. (3). A study of the origin and development of American journalism;

students who enroll in this course should have completed History 2601 and 2602 or the equivalent. [0602-1]

4008. Advanced Press Photography. (3). A continuation of Journalism 3111 with emphasis placed on materials for duotones and for two-color, three-color, and four-color separation processes. PREREQUISITE: JOUR 3111 or permission of the instructor. [0602-1]

4009. Current Trends in Media Photography. (3). A seminar course in which students study current literature of photography, test new ideas and report techniques and results to the class. PREREQUISITE: JOUR 3111 or permission of the instructor. [1011-1]

4030. Broadcast Newsroom Management. (3). Policy and regulatory aspects of broadcast news management; personnel and technical factors governing broadcast news production and programming; analysis of news operations. [0603-1]

4050. Fashion Advertising Copy Writing. (3). Introduction to evaluating, writing, and editing of copy for fashion advertising and sales promotion. Students analyze advertising and other promotional practices of retail and wholesale firms, evaluate the fashion market, and prepare sample books of fashion copy writing. PREREQUISITE: JOUR 3221. [0602-1]

4100. Advertising Management. (3). Researching, planning, writing, scheduling, budgeting, and evaluating the complete advertising campaign. Includes media selection, layouts, tapes, storyboards, and preparation of detailed budgets for product or service. PREREQUISITE: senior standing. [0604-1]

4101. Advertising Production. (3). A lecture-laboratory study of typography and photography to develop creative advertisements. The course will include comprehensive pasteups of one-color and multiple-color designs. PREREQUISITE: JOUR 2211. [0604-1]

4111. Journalistic Influence and Commentary. (3). Analysis of mass media handling of influence and opinion material with emphasis on editorial problems, methods, policies and style. Practical experience in developing and writing editorial copy. [0601-1]

4210. Religious Journalism. (3). An introduction to media coverage of religion; the history of religious publications; religious journals today; career opportunities in the field of religious journalism. PREREQUISITE: junior standing or permission of instructor. [0602-1]

4222. Public Relations. (3). The development, scope, and modern role of public relations, with emphasis on case studies, lectures, and experimentation with major public relations tools and practices. [0601-1]

4232. Public Relations Techniques. (3). Booklet production, writing news releases, preparing visuals for speeches, producing slide presentations, writing annual reports, planning and budgeting, and other tasks customarily assigned to the public relations practitioner. PREREQUISITE: JOUR 4222. [0601-1]

4242. Public Relations Projects. (3). Students who have completed basic journalism and public relations courses are assigned as interns in local public relations offices to work under supervision of qualified practitioners. NOTE: Students may not receive credit for both Journalism 4000 and Journalism 4242. PREREQUISITE: JOUR 4232 or permission of the instructor. [0601-1]

4245. Public Affairs Reporting. (3). Designed to help the student understand and write news reports about the relationships among local, state and federal governmental agencies and institutions; the social, educational and economic

forces and pressures in the large urban area. PREREQUISITE: News-editorial major. [0601-1]

MUSIC

PROFESSOR WILLIAM GAVER, *Chairman*

Room 123B, Music Building

Requirements for the major and minor in music are listed on page 68. The program for the Bachelor of Music degree is outlined on page 66. Requirements for the Bachelor of Music Education are listed on page 80.

PIANO PROFICIENCY: All music majors in all degree programs must demonstrate proficiency in piano. This may be done in either of two ways: (1) by successful completion of Music Education 1108 Class Instruction in Piano, or (2) by passing without credit the proficiency in piano based on the level of study described in Music Education 1108, Class Instruction in Piano. Copies of the requirements for the piano proficiency examination are available on request in the Music Office. Students must attempt the piano proficiency examination prior to attainment of junior classification. If the examination is failed, enrollment in piano class at an appropriate level is mandatory until the student either attains a passing grade in MUSE 1108 or successfully passes the proficiency examination. Transfer students must attempt the proficiency during the first semester of residence.

K307

MUSIC THEORY AND COMPOSITION (MUTC)

NOTE: Numbers in parentheses to the right of title are former course numbers. If credit has been earned for the former number, it may not be earned for the same course with the new number.

1001. Basic Music Theory. (1). Designed for students who plan to major in music but do not meet minimum standards for MUTC 1004. Not allowable as credit toward the satisfaction of requirements for the major or minor. *Two laboratory hours per week. [1004-1]*

1002. Aural Music Theory I. (1). (1012) Sight-singing and ear-training techniques using material studied in MUTC 1004; keyboard harmony. *Two laboratory hours per week. PREREQUISITE: MUTC 1001. [1004-1]*

1003. Aural Music Theory II. (1). (1013) Continuation of Music 1002 with more difficult unison and easier two-, three-, and four-part materials. *Two laboratory hours per week. PREREQUISITE: permission of the instructor. [1004-1]*

COMPREHENSIVE MUSICIANSHIP: An integrated approach to the study of music in which fundamentals of theory are applied in ear training, composition, and analysis of music literature.

1004. Comprehensive Musicianship I. (3). (1051) Notation, intervals, scales, solmization, key signatures; triads and non-harmonic tones; introduction to orchestral instruments, to principles of melodic and rhythmic construction, to periods of music history with rudiments of style analysis. *Five class hours per week. PREREQUISITE: Theory Placement Examination. [1006-1]*

1005. Comprehensive Musicianship II. (3). (1052) Continuation of concepts introduced in 1004; four-voice structure, functional harmony, diminished triads, seventh and altered chords; categories of non-chord tones; introduction to contrapuntal devices; ranges and transpositions of instruments; survey of pre-eminent composers, genres, and stylistic characteristics of periods of Western music history. *Five class hours per week. PREREQUISITE: MUTC 1004. [1006-1]*

1006. Comprehensive Musicianship III. (4). (1052) Continuation of concepts introduced in 1004 and 1005; use of second inversion chords and augmented triads; study of harmonic rhythm, chord classification, and figured bass; review and drill of all diatonic functional harmony; music literature emphasizing Renaissance and Baroque music. *Five class hours per week. PREREQUISITE: MUTC 1005. [1006-1]*

2001. Aural Music Theory III. (1). (2014) Continuation of MUTC 1003 with classwork correlated with MUTC 3001. *Two laboratory hours per week. PREREQUISITE: permission of the instructor. [1004-1]*

2002. Aural Music Theory IV. (1). (2015) Continuation of MUTC 2001 with classwork correlated with MUTC 3002. *Two laboratory hours per week. PREREQUISITE: permission of the instructor. [1004-1]*

2101. Theory of Jazz Improvisation. (3). A preliminary study of chord symbols, contemporary use of modes and other scalar material. Basic jazz improvisation literature. PREREQUISITE: MUTC 1005. COREQUISITE: MUAP 3103. [1004-1]

+2501. Composition. (2). (2023) Class instruction in free composition with emphasis on smaller forms. May be repeated for additional credit. PREREQUISITE: MUTC 1004 [1004-1]

*Composition is taught as applied music. Students receive the equivalent of one half-hour lesson per week. The fee for this instruction is \$25.00 per semester.

***2502. Composition. (2).** (2024) Works for piano, voice, chorus, and small ensembles; a study of style and analysis of works from music literature. May be repeated for additional credit. PREREQUISITE: MUTC 2501 or permission of instructor. [1004-1]

*Composition is taught as applied music. Students receive the equivalent of one hour lesson per week. The fee for this instruction is \$50.00 per semester.

3001. Comprehensive Musicianship IV. (4). Continuation and development of concepts introduced in 1004, 1005, and 1006; basic principles of formal analysis; binary, ternary, and variation forms; augmented sixth, Neapolitan sixth and full diminished seventh chords; modulatory procedures; orchestration for strings and woodwinds; music literature emphasizing Classical and Romantic music. *Five class hours per week. PREREQUISITE: MUTC 1006. [1006-1]*

3002. Comprehensive Musicianship V. (4). Continuation and development of 3001; study of third relationships, ninth, eleventh, and thirteenth chords; parallel harmony, impressionistic techniques; orchestration for brass, scoring chords for full orchestra, transcribing piano music; formal analysis stressing rondo, sonata, and specific ternary forms; music literature emphasizing late Romantic and Impressionistic music. *Four class hours per week. PREREQUISITE: MUTC 3001. [1004-1]*

3003. Comprehensive Musicianship VI. (4). Continuation and development of all previous Comprehensive Musicianship courses; varied orchestration analyses and exercises; formal analysis of concertos, fugues and unique forms; introduction to twentieth century techniques including quartal harmony, pandiatonicism, serial and avant-garde techniques; stylistic perspectives of music literature. *Four class hours per week. PREREQUISITE: MUTC 3002. [1006-1]*

3103. Advanced Orchestration. (3). (3035) Arranging of piano, organ, and choral compositions for full orchestra and chamber ensembles. PREREQUISITE: MUTC 3003. [1004-1]

3104. Band Arranging. (3). (3036) Transcriptions of selected works for band and wind ensemble;

stage band arranging. PREREQUISITE: MUTC 1006. [1004-1]

3105. Sixteenth Century Counterpoint. (2). (3028) A study of the modal contrapuntal technique of the sixteenth century; writing in two and three parts in the style of Palestrina and Lassus; analysis. PREREQUISITE: MUTC 1006. [1004-1]

3106. Eighteenth Century Counterpoint. (2). (3029) A study of contrapuntal techniques of the eighteenth century; writing in two or four parts; canon and fugue. PREREQUISITE: MUTC 1006. [1004-1]

3108. Twentieth Century Counterpoint. (2). (3031) Contrapuntal techniques of the twentieth century; analysis of serial techniques in contemporary styles. PREREQUISITE: MUTC 3105 or 3106. [1004-1]

4101. Compositional Techniques of the Twentieth Century. (3). (4039) A writing course employing the harmonic and contrapuntal techniques and devices from Debussy to the present. [1004-1]

4102. Commercial Music Workshop. (1-3). A study of musical styles for various sizes of instrumental groups; writing for commercials; arranging; recording studio techniques. For instrumentalists and arrangers. May not be repeated for the purpose of changing the grade originally given. PREREQUISITE: permission of the instructor. [1004-1]

4103. Pop Singing and Arranging. (1-3). A Study of pop singing styles, emphasizing arranging, ensemble techniques, diction, phrasing, recording studio techniques. May not be repeated for the purpose of changing the grade originally given. [1004-1]

4104. Pedagogy of Theory. (3). A practical course in classroom procedures. Demonstrations by students and instructor in teaching the rudiments of music, stylistic and structural analysis, and ear-training. PREREQUISITE: MUTC 3003. [1004-1]

4105. Analytical Techniques. (3). Techniques of analysis of styles and structures of music from all periods of music. [1004-1]

4202. Seminar: Music Theory and Analysis. (3). (4031) An advanced course in theory, counterpoint, and analysis of literature. Contrapuntal and harmonic techniques. Research; theoretical problems from a pedagogical point of view; writing in strict and free styles. Recommended as a review course for graduate students. PREREQUISITE: permission of the instructor. [1004-1]

4203. Critical Studies in Music. (3). (4033) Directed research in music theory, history and literature; a study in depth related to the major concentration area; required of theory majors; term paper. [1004-8]

***4501. Composition. (2 or 4).** (4024) Composition in varied forms for large and small ensembles and solo instruments; analysis of contemporary works and practical application of techniques. May be repeated for additional credit. PREREQUISITE: Recommendation of the upper division examining committee. [1004-8]

*Composition is taught as applied music. Students receive the equivalent of one hour lesson per week. The fee for this instruction is \$50.00 per semester.

+4502. Composition for Non-Composition Majors. (3). Class instruction in free composition for students not majoring in composition. Practical experience in idea generation, form, development, and instrumentation. PREREQUISITE: MUTC 3002. [1004-8]

*Composition is taught as applied music. Students receive the equivalent of one half-hour lesson per week. The fee for this instruction is \$25.00 per semester.

4599. Senior Composition Recital. (nc). [1004-8]

K304 MUSIC HISTORY, LITERATURE, AND APPRECIATION (MUHL)

NOTE: Numbers in parentheses to the right of title are former course numbers. If credit has been earned for the former number, it may not be earned for the same course with the new number.

1101. Music Appreciation. (3). (1131) An introduction to music through a study of its literature and history; significant compositions are oriented to their proper social, cultural, economic and political settings in order to bring about the most effective understanding and enjoyment of the music. Open without prerequisite to non-music majors. [1006-1]

1102. Jazz Appreciation. (3). An introduction to jazz with the emphasis concentrated on the nature and processes of jazz and particularly on its historical background and development in the United States. Open to non-music majors. [1006-1]

2101. Afro-American Music. (3). (2131) A survey of West African music and the American music derived from it. Appreciation of the complex melodic-polyrhythmic improvisational style of African music and its relationship to Brazilian, Caribbean, and North American Negro music. [1006-1]

3301. History of Music to 1700. (3). (3131) A study of the development of the significant musical styles with special attention to the individual contribution of the major composers. PREREQUISITE: MUTC 1006 or permission of the instructor. [1006-1]

3302. History of Music Since 1700. (3). (3132) A continuation of MUHL 3301. PREREQUISITE: MUTC 1006 or permission of the instructor. [1006-1]

4001. Piano Repertory. (3). (4140) A survey of stringed keyboard repertory from Bach and his contemporaries to the present. Representative works will be analyzed in regard to historical, stylistic, formal and aesthetic features. PREREQUISITE: junior standing in music or permission of the instructor. [1004-8]

4002. Song Repertory I. (2). (4121) Basic repertoire of old Italian airs and German lieder, as well as an introduction to the French repertoire of the nineteenth century. [1004-8]

4003. Song Repertory II. (2). (4122) The French art song and solo vocal works of other nationalistic schools, as well as English and American song literature. [1004-8]

4004. Survey of Chamber Music for Piano. (2). A study of the development of works for piano and one other instrument, piano trios, piano quartets and quintets; stylistic analysis of works from the classic, romantic, impressionistic, early 20th century, and avant-garde repertory. PREREQUISITE: permission of instructor. [1004-8]

4401. Medieval Music. (3). The history of music from classical antiquity to c. 1400. [1004-1]

4402. Renaissance Music. (3). The history of music from 1400 to 1600. [1004-1]

4403. Baroque Music. (3). (4111) The age of the basso continuo, 1580-1780; opera and oratorio, instrumental forms, keyboard music, and performance practices. PREREQUISITE: MUHL 3301 and 3302 or permission of instructor. [1004-1]

4404. Classic Music. (3). (4112) Rococo and Pre-classic music in England, France, Italy, Spain and Germany: The Viennese classical tradition. PREREQUISITE: MUHL 3301 and 3302 or permission of instructor. [1006-1]

4405. Romantic Music. (3). (4113) The development of romanticism in music from late Beethoven through Bruckner. PREREQUISITE: MUHL 3301 and 3302 or permission of instructor. [1006-1]

4406. Music in the Twentieth Century. (3). (4114) Music since Debussy and Mahler with emphasis on current developments and techniques. PREREQUISITE: MUHL 3301 and 3302 or permission of instructor. [1006-1]

4407. The Opera and Music Drama. (3). (4133) A survey of the opera before Richard Wagner; study of Wagner's music dramas and operas of his contemporaries; dramatic and musical significance of each phase of the development of the two forms. PREREQUISITE: MUHL 3301 and 3302 or permission of instructor. [1004-1]

4601. Comparative Arts. (3). (4131) Cultural activities in their interrelation with each other and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing. [1004-9]

COLLEGIUM MUSICUM: Laboratory in Music History

1351 3351. Early Music Instruments: Performance. (1, 1). (0141, 1141, 3141) (lute, viols, recorders, 18th century transverse flute, etc.) NOTE: May be repeated for credit, but not for the purpose of improving grade originally given. [1004-8]

4351. Problems in Editing. (1-3). (4143) The preparation of performance editions from facsimiles of early prints and manuscripts; continuo realization, transcription of tablatures and works in mensural notation. (May be repeated for a maximum of three hours credit). PREREQUISITE: permission of instructor. [1004-8]

4602. Introduction to Commercial Music. (3). A survey of the music industry including copyright, royalties, producing, labor relations, promotion, advertising, and distribution. [1099-1]

K316 SACRED MUSIC (MUSA)

NOTE: Numbers in parentheses to the right of title are former course numbers. If credit has been earned for the former number, it may not be earned for the same course with the new number.

4001. Judeo-Christian Music. (3). (4137) History of church music from the temple to 1000 A.D. Considerable emphasis on Hebrew music, its use as related in scripture and the form and use of service music in the present day temples. Music for sabbath and festival services. [2302-8]

4002. History of Liturgies. (3). (4138) A study of the services of the liturgical churches and the music used generally and specifically by these churches. [1006-8]

4003. Hymnology. (3). (4139) A study of hymns, their authors, composers, and role in liturgical churches. [1004-8]

4101. Service Playing. (3). (4238) Designed to give the student practical keyboard work in performance of the basic music used in liturgical and non-liturgical services. Includes keyboard harmony, modulation and simple improvisation. NOTE: This course is taught as applied music. Students receive the equivalent of 2 half-hour lessons per week. The fee for this instruction is \$50.00 per semester. [2302-8]

4102. Church Choir and Console Conducting. (3). (4237) Instruction in the techniques of conducting for both adult and youth or children's choirs designed to meet the needs of all church music majors, directors and combination organist-directors who must conduct and play simultaneously. NOTE: This course is taught as applied music. Students receive the equivalent of 2 half-hour lessons per week. The fee for this instruction is \$50.00 per semester. [2302-8]

4201. Church Choir Organization and Training. (3). (4240) Designed to provide devices and materials for recruiting choir members of various age groups and for integrating them into an active musical program. [0832-8]

K318 APPLIED MUSIC (MUAP)

Applied music is offered at three levels: (1) major group instruction, (2) lower division, and (3) upper division. Lessons are given by members of the university faculty and by special instructors. Since the number of students who can be accepted is limited, it is advisable that the student audition as early as possible to be assured a place with the requested teacher. Practice facilities are provided without charge, but there are additional fees for the individual lessons.

All music majors enrolled in applied music must simultaneously enroll in a large musical organization each semester with the exception of the practice teaching semester. Non-music majors enrolled at Memphis State University as full-time, degree-seeking students may enroll and be accepted for applied instruction where staff time is available. If accepted for applied instruction, full-time, non-music majors must simultaneously enroll and actively participate in a large musical organization sponsored by the Department of Music. For additional details, see LARGE MUSICAL ORGANIZATIONS in this section of the Bulletin.

FEES: In addition to the regular student fees, all persons taking applied music will be assessed \$25.00 for each half-hour lesson. Students registering for one (1) semester hour credit will receive one half-hour lesson per week. All others will receive one hour lesson per week regardless of credit hours.

REGISTRATION: Students will register for lessons in the same manner and at the same time as they register for other courses; however, a student may not be assigned to a course number until he has auditioned. Auditions are held in the Music Building during the pre-college counseling, advising and registration periods before each semester. Auditions may be scheduled in the Music Office, Room 123, Music Building. Any inquiries concerning credits or course numbers should be directed to the chairman of the Department of Music.

CREDITS AND GRADES: A student may register for one or two hours credit per semester and will be assigned to individual lessons, a master class, or a combination of the two, commensurate with his level of performance. Additional credit may be earned at the lower division and upper division level. Students earning more than two credits per semester will be assigned additional practice and will be expected to perform at a higher level than those students registered for fewer credits. Grades are awarded on the same basis and have the same significance as in other subjects.

EXAMINATIONS: For an examination in applied music, each student will prepare and perform for members of the faculty of the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations are held in designated rooms on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

0001. Applied Music Workshop. (NC). All music majors are required to take this course each semester they are registered in the University to a maximum of seven semesters. Attendance at 12 recitals per semester is required. [1004-1]

MAJOR GROUP INSTRUCTION

Any student of the University may audition for lessons at the major group level except in organ; organ students must have the ability to

play the piano before beginning organ instruction. A student may not receive more than four hours credit in any one area of major group instruction. The fee for major group instruction will be the same as for one half-hour lesson per week: \$25.00 per semester.

LOWER DIVISION COURSES

Applied music courses in the lower division include the study normally carried out during the freshman and sophomore years. The piano or instrumental student at this level should have had several years of intensive study prior to University entrance so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this level provided that they play the piano well and have reasonable ability in sight reading. Those who do not meet this requirement will register for Piano 1310. To be admitted to lower division study a student must first pass a qualifying examination.

Students who fall short of the requirements for admission to the lower-division courses will be advised to register for major group instruction until deficiencies are eliminated. Course numbers will be repeated for each semester of study.

UPPER DIVISION COURSES

Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only on the recommendation of the upper division examining committee; such a recommendation will be made only if the student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

JUNIOR AND SENIOR RECITALS

Most degree plans include a junior and/or a senior recital. Degree requirements for the Bachelor of Music degree are listed on page 66; for the Bachelor of Music Education degree on page 80; and for the Bachelor of Arts degree on page 68. A student must register for recital during the semester in which the recital is to

be presented. Recital dates are scheduled tentatively at the beginning of the semester.

All required recitals must be approved by the faculty. This is normally accomplished no later than two weeks prior to the scheduled date at which time the entire program is performed for a faculty committee. Only upon successful completion of this hearing may a student confirm the scheduled date and make arrangements for the printing of the program.

Bachelor of Music majors with concentration in accompanying must accompany two full recitals or the equivalent.

PREREQUISITE: participation in jury examination for woodwinds, brasses, and strings. Student should register for the semester he intends to complete requirement.

For details regarding recommended and/or required recital literature see the Memphis State University Music Department Handbook.

VI. SMALL ENSEMBLES AND CHAMBER MUSIC

Advanced students are encouraged (and for certain degree plans are required) to participate in the following groups. Selection for membership is based on audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

3101. Brass Ensemble. (1). (3381) [1004-8]

3102. University Jazz Band. (1). (3382) [1004-1]

3103. Jazz Combo. (1). A practical application of basic jazz improvisation techniques. **PREREQUISITE:** MUTC 2101 or permission of instructor. [1004-8]

3301. Ensemble for Pianists. (1). (3681) Applied work in piano ensembles, chamber music, and accompanying for woodwinds, brasses, strings, and vocalists. May be repeated for credit up to 6. [1004-8]

3302. Accompanying. (1). (3682) [1004-8]

3401. Percussion Ensemble. (1). (3581) [1004-8]

3402. Contemporary Chamber Players. (1). (3582) [1004-8]

3403. Orff Ensemble. (1). Ensemble for exploring, sightreading, and performing advanced rep-

ertory written for Orff instruments; pieces for recorder ensemble; modal compositions in elemental style for xylophones, metallophones, glockenspiels, and unpitched percussion instruments; contemporary literature. [1004-8]

3501. String Ensemble. (1). (3781) [1004-8]

3601. Madrigal Group. (1). (3881) [1004-8]

3602. Opera Workshop. (1-6). (3882) [1004-1]

3603. Opera Soloists. (1). (3883) [1004-8]

3604. Opera Production Laboratory. (1-6). (3884) [1004-8]

3620. Dramatic Coaching. (2). (3825) Individual and/or class instruction in the interpretation of operatic and song literature. May be repeated for credit. [0832-8]

3701. Woodwind Ensemble. (1). (3903) [1004-8]

LARGE MUSICAL ORGANIZATIONS [1004-1]

Music majors* are required to participate in a large musical organization during each semester as a full-time student, with the exception of the semester in which the student is enrolled in practice teaching. Wind and percussion performers are to participate in an instrumental ensemble; string performers are to participate in orchestra; and vocal and keyboard performers are to participate in a choral organization. Transfer students lacking ensemble credits may partially fulfill their obligations by participating in small ensemble groups with permission of the department chairman. Selection for membership is based on audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week. [1004-1]

*Pianists with concentration in Performance, Pedagogy, or Accompaniment are required to have 6 semesters of major ensemble.

2001. University Concert Band. (1). (1392)

2002. Marching Band. (1). (1393)

2003. University Glee Club. (1). (1893)

3004. University Wind Ensemble. (1). (3391)

3005. University Orchestra. (1). (3791)

3006. University Chorale. (1). (3891)

3007. Opera Chorus. (1). (3892)

3008. Oratorio Chorus. (1). (3893)

APPLIED MUSIC COURSES [1004-8]

Instrument	Major Group Instruction (2) [1004-8]	Lower Division (1-4 each) [1004-8]	Upper Division (1-6 each) [1004-8]	Junior Recital (NC) [1004-8]	Senior Recital (NC) [1004-8]
Trumpet	1110	1111	4111	4118	4119
Horn	1120	1121	4121	4128	4129
Trombone	1130	1131	4131	4138	4139
Tuba	1140	1141	4141	4148	4149
Piano	1310	1311	4311	4318	4319
Harpsicord	—	1321	4321	4328	4329
Organ	—	1331	4331	4338	4339
Accompanying	—	—	—	4348	4349
Percussion	1410	1411	4411	4418	4419
Violin	1510	1511	4511	4518	4519
Viola	1520	1521	4521	4528	4529
Cello	1530	1531	4531	4538	4539
Bass	1540	1541	4541	4548	4549
Guitar	1550	1551	4551	4558	4559
Harp	1550	1561	4561	4568	4569
Voice	1610	1611	4611	4618	4619
Flute	1710	1711	4711	4718	4719
Oboe	1720	1721	4721	4728	4729
Clarinet	1730	1731	4731	4738	4739
Saxophone	1740	1741	4741	4748	4749
Bassoon	1750	1751	4751	4758	4759

K313 MUSIC EDUCATION (MUSE)

NOTE: Numbers in parentheses to the right of title are former course numbers. If credit has been earned for the former number, it may not be earned for the same course with the new number.

FIELD OF ENDORSEMENT FOR TEACHING. Endorsement may be obtained in Instrumental Music, in School Music, and in General Music. Normally a student can expect to be recommended in only one of these areas. School Music (vocal emphasis) applicants should be able to play piano accompaniments of average difficulty, should possess an adequate solo voice for school music purposes, and should schedule courses in a wide variety of choral activities. Instrumental Music applicants may satisfactorily

meet piano and voice requirements with completion of Music Education 1108 and Music Education 1113, with their prerequisites. Study in one instrument of major emphasis, and participation in concert and marching bands, orchestra and a variety of smaller ensembles will also be required. A graduation recital is required of all students who expect to graduate with the Bachelor of Music Education with a major in School Music or in Instrumental Music. A major in General Music will prepare a student to teach both vocal and instrumental music. A graduation recital is not required in General Music.

The following courses, Music Education 1101 through 1104, are designed to teach the music education major, already a competent performer in one field, the playing techniques of the major instruments of band and orchestra and

the methods of instructing others in these techniques. Practice facilities are provided and there are no additional fees.

1101. Class Instruction in Brass Instruments. (2). (1312) Basic performance skills and teaching techniques on trumpet, trombone, and French horn for those who intend to teach instrumental music in public school. [0832-1]

1103. Class Instruction in Percussion Methods. (2). (1512) Basic performance skills and teaching techniques on snare drum, tympani, and keyboard percussion instruments for those who intend to teach instrumental music in public school. Two laboratory hours per week. [0832-1]

1104. Class Instruction in Woodwind Instruments. (2). (1912) Basic performance skills and teaching techniques on clarinet, flute, saxo-

phone, oboe, and bassoon for those who intend to teach instrumental music in public school. *Two laboratory hours per week.* [0832-1]

1105. Class Instruction in Piano. (1). (1611) Basic technique, with emphasis on sight-reading. *Two laboratory hours per week.* [0832-1]

1106. Class Instruction in Piano. (1). (1612) Playing of songs used in school music teaching, community songs, and hymns. *Two laboratory hours per week.* [0832-1]

1107. Class Instruction in Piano. (1). (1613) Simpler Bach chorales, more difficult songs, and accompaniments, appropriate to the student's major field; memorization optional. *Two laboratory hours per week.* [0832-1]

1108. Class Instruction in Piano. (1). (1614) Selected easier studies and compositions by Czerny, Concone, Beethoven, Chopin, Schumann, Bartok, and others. The final examination will include materials to satisfy the requirements for the piano proficiency examination, copies of which are available in the music office. *Two laboratory hours per week.* [0832-1]

1109. Class Instruction in Stringed Instruments. (1). (1711) Basic performance skills and teaching techniques on violin, viola, cello and bass for those who intend to teach instrumental music in public school. *Two laboratory hours per week.* [0832-1]

1110. Class Instruction in Stringed Instruments. (1). (1712) Continuation of 1109. *Two laboratory hours per week.* [0832-1]

1111. Class Instruction in Guitar. (1). Functional accompanying skills as commonly used in folk and popular music. Basic and intermediate performance technique appropriate to the student's ability. May be repeated once for additional credit. [0832-1]

1112. Class Instruction in Voice. (1). (1811) Fundamentals of vocal production useful for all music teachers. *Two laboratory hours per week.* [0832-1]

1113. Class Instruction in Voice. (1). (1812) Continuation of 1112 with more emphasis on solo singing of easy songs. *Two laboratory hours per week.* [0832-1]

3001. Classroom Music Methods I. (3). (3234) Required of all Elementary Education Majors. Experiences in singing, moving, listening, performing, and describing simple music appropriate for use in the elementary school. [0832-1]

3002. Classroom Music Literature. (3). (3235) Experiences with planning and teaching contemporary music methodologies including those of Orff, Kodaly, Contemporary Music Project, and the Manhattanville Project. PREREQUISITE: MUTC 1006 or permission of instructor. [0832-1]

3701. Instrumental Conducting. (3). (MUSC 3236) A study of the various problems encountered in preparation and conducting of instrumental scores; individual practice with the opportunity for each student to conduct instrumental groups. PREREQUISITE: MUTC 1006. [1004-1]

3702. Score Reading. (3). (3239) Realization of open score at the keyboard; vocal scores, small orchestra and large orchestra scores; clefs, transpositions, etc.; employing literature from various periods of music history. [1004-8]

4001. Orff-Schulwerk Workshop for Classroom Teachers. (3). A broad, practical introduction to the use of the Orff-Schulwerk method of elementary music teaching. Development of performance leadership skills stressed. Not open to music majors. PREREQUISITE: One course in music methods or equivalent experience. [0832-1]

4002. Orff-Schulwerk Workshop for Classroom Teachers II. (3). Second level Orff-Workshop course for non-music majors. Emphasis is placed on the process of teaching; includes

rhythmic training, elementary solfeggio, exploration of folk song materials suitable for children, and development of lesson plans. PREREQUISITE: MUSE 4001 and rudimentary skills on soprano recorder. [0832-1]

4201. Special Problems in the Teaching of Music. (1-3). This course provides for class or individual study of the problems and opportunities faced by the person who teaches music in the schools; for classroom teachers, music teachers and supervisors, principals, and administrators. [0832-8]

4202. Materials and Methods of Music, Grades K-6. (3). (4233) A study of the aims and principles of music and of the traditional and contemporary methods of teaching music in the elementary schools. Creative approach to rhythm, listening, instrumental and singing activities. Contemporary systems of music teaching for elementary grades will be surveyed. [0832-1]

4203. Materials and Methods of Music—Middle and Junior High School. (3). (4234) A survey and application of contemporary teaching strategies and methodologies for the music specialist. [0832-1]

4204. Materials and Methods of Middle and Junior High School Instrumental Music. (2). (4232) Designed to prepare the public school instrumental teacher to teach basic music concepts to beginners in mixed instrumental group settings. Instruction methodologies and materials, simple instructional arranging, instrument assignment, and instrument maintenance will be stressed. Lab experience. PREREQUISITE: junior standing in music. [0832-1]

4205. Marching Band Techniques. (2). Organizing and conducting the marching band; gridiron charting and marching procedures with a study of precision drill, formations, and pageantry. PREREQUISITE: permission of the instructor. [0832-1]

4206. Music for Exceptional Children. (3). A review of the types of exceptional children and the implications for providing realistic musical activities in the classroom. Emphasis will be placed on the use of music as a tool in reaching non-musical goals such as language development, social adjustment, motor coordination, aural and visual perception (team taught with Special Education). PREREQUISITE: SPER 2000 for music education majors; MUSE 3001 for special education majors; or permission of instructors. [0832-9]

4401. Music Education: Principles and Programs. (3). (4235) Historical, philosophical, psychological, social, and aesthetic foundations of the total education programs, grades K through 12. Administrative procedures and problems. The music educator's role in the community. Evaluative techniques. [0832-1]

4501. Elementary Piano Methods. (2). (4160) Emphasis on elementary piano methods including Suzuki, Pace, and Orff; observation and practice teaching. PREREQUISITE: permission of instructor. [0832-1]

4502. Class Piano Methods. (2). Class Piano methods utilizing electronic laboratory; methods for learning at all ages. PREREQUISITE: permission of instructor. [0832-1]

4503. Advanced Piano Pedagogy. (3). Approaches to the teaching of piano technique, repertoire, and musicianship. For upper division keyboard majors. PREREQUISITE: Upper division level in keyboard. [0832-1]

4504. String Pedagogy. (3). (4170) A study of various methods of teaching strings with special emphasis on contemporary theories of pedagogy; observation and laboratory teaching in MSU String Preparatory and the Suzuki Talent Education Divisions. For string majors. PRE-

REQUISITE: permission of the instructor.

[0832-1]

4505. Principles of Accompanying. (3). Master class dealing with technical and musical problems of performing as accompanist. [0832-8]

4506. Introduction to Suzuki Talent Education for Strings. (3). Required of students who plan to serve as apprentice string teachers in the MSU Suzuki Talent Education Program. Basic instruction in the Suzuki philosophy; participation with parents and children in Suzuki string classes. [0832-1]

4701. Choral Conducting. (3). (4236) A study of the various problems encountered in preparing and conducting traditional and contemporary vocal scores; rehearsal techniques; individual practice with laboratory groups. PREREQUISITE: MUTC 1006. [0832-1]

4799. Conducting Recital. (nc). [0832-8]

4801. Teaching Music Comprehensively. (3). (4205) A methods course designed to bring music theory, history, literature, performance, composition, and analysis to bear on the teaching of music at any level—elementary, junior high, high school, college, and private studio. [0832-1]

4802. Introductory Workshop in Orff-Schulwerk. (3). (4202) A study of basic Orff-Schulwerk techniques including body movement, soprano recorder, percussion, vocal performance, improvisation and arranging. PREREQUISITE: Junior standing in music education or equivalent experience. [0832-1]

4803. Intermediate Workshop in Orff-Schulwerk. (3). (4203) A study of intermediate level Orff techniques including modal harmonization, irregular rhythms, alto recorder performances and more extensive improvisation and arranging. PREREQUISITE: MUSE 4802 or its equivalent in experience. [0832-1]

4804. Teachers Workshop in Orff-Schulwerk. (3). (4204) A study of advanced Orff-Schulwerk techniques including original composition, complex form, movement and instrumental arrangements, tenor and bass recorders performance, and advanced improvisation. PREREQUISITE: MUSE 4803 or its equivalent in experience. [0832-1]

4805. Workshop in Double Reed Techniques. (3). For students who are not specialists on oboe or bassoon; pedagogical and technical problems peculiar to double reed instruments; reed-making and adjusting. A set of tools basic to making reeds is required. [0832-1]

SPEECH AND DRAMA

PROFESSOR JOHN H. SLOAN, *Chairman*
Room 143, Speech and Drama Building

The Department of Speech and Drama offers concentrations in general speech; radio-television-film; rhetoric and communication arts; and theatre; the requirements for these majors are listed on page 68.

Students planning to pursue graduate education in speech pathology and/or audiology should be aware of the fact that they will need 18 semester hours in the basic areas that relate to communication science. Such areas include: human anatomy, physiology, and developmental psychology.

Students wishing further information about the graduate program in the Department of Audiology and Speech Pathology should contact that department's chairman for advisement.

NQTE: Students may take speech and drama laboratory courses (viz., 3301, 3401, 3501 and 3831) as often as adviser will allow. None of these courses may be repeated for the purpose of improving the grade originally given.

K490 THEATRE (SPCH)

Dr. Richard Rice, Director

1411. Interpretation Perspectives. (3). An introduction to the interpretation of literature in performance. Designed to develop and heighten the performer's responsiveness to his literary text. [1007-1]

1551. Introduction to Theatre. (3). A consideration of all the dramatic elements of the theatre from the viewpoint of the audience, designed to enhance and improve the student's appreciation of theatrical performances. [1007-1]

2501. Stage Movement I. (3). An introduction to movement as a basic element of the actor's craft. This course focuses on the recognition, development, and understanding of natural physical actions and rhythms and their application to the stage. [1007-1]

2502. Stage Movement I. (3). A continuation of Speech 2501 dealing with the actor's visual awareness of negative and positive space and time. [1007-1]

2511. Stagecraft I. (3). A lecture-laboratory course covering basic elements of technical theatre. [1007-1]

2512. Stagecraft I. (3). A lecture-laboratory course covering basic elements of stage lighting, painting, and costumes. [1007-1]

2531. Acting I. (3). Introduction to the craft of acting. The development of the actor's individual instrument through basic technique. [1007-1]

2532. Acting I. (3). A continuation of Speech 2531. Focusing on action and reaction in two-person scenes. PREREQUISITE: SPCH 2531. [1007-1]

2541. Stage Make-up. (2). Fundamentals of straight and character make-up. The application of the principles governing line, color, and light and shade of make-up problems. Practical experience in make-up through various productions. [1007-1]

3401. Performance Laboratory (1-3). Preparation for and participation in theatre performance activities. One to three hours credit each semester for supervised laboratory work. May be repeated for a maximum of 8 semester hours credit. [1007-8]

3411. Interpretation Arts. (3). An in-depth study of poetic literature as interpreted by the performer. Designed to develop and heighten the performer's sensitivity to language styles and rhythms. NOTE: *Students who have received credit for Speech and Drama 2411 will not be allowed credit for Speech and Drama 3411.* [1007-1]

3412. Interpretation Experiments. (3). An intensive study of the theatrical image. Creative exercises in the imaginative use of space, time, and experimental script materials in directing for the stage. NOTE: *Students who have received credit for Speech and Drama 2412 will not be allowed credit for Speech and Drama 3412.* [1007-1]

3451. Interpreter's Theatre. (3). Studies in the staging of materials not originally written for the theatre. PREREQUISITE: SPCH 3521. [1007-8]

3461. Oral Interpretation of Black Literature. (3). Principles and practice relative to the oral interpretation of poems, speeches, and plays written by Black Americans. PREREQUISITE: SPCH 1411. [1007-1]

3501. Production Laboratory. (1-3). Preparation for and participation in theatre production activities. One hour credit each semester for three hours of supervised laboratory work per week. May be repeated for a maximum of 8 semester hours credit. [1007-8]

3502. Stage Movement II. (3). Movement studies to develop the actor as a creator and user of props, sound, and space. [1007-1]

3503. Stage Movement II. (3). A continuation of Speech 3502 emphasizing the translation of visual and non-visual images and metaphors into movement for the stage. [1007-1]

3511. Stagecraft II. (3). A lecture-laboratory course covering the basic elements of scenery construction and technical drawing. [1007-1]

3512. Stagecraft II. (3). A study of the techniques and principles involved in scenery painting, sound, rigging, and properties. [1007-1]

3521. Directing. (3). A study of the basic organizational techniques of stage direction. [1007-1]

3522. Directing I. (3). A continuation of Speech 3521 emphasizing the integration and organization of all components of play production. [1007-1]

3531. Acting II. (3). The development of ensemble work within scenes. PREREQUISITE: SPCH 2532. [1007-1]

3532. Acting II. (3). The development of acting styles as influenced by the environments of historical periods. [1007-1]

3551. History of the Theatre. (3). A history and survey of drama from Aeschylus to Turgenev. [1007-1]

3552. History of the Theatre. (3). A history and survey of drama from Ibsen to Ionesco. [1007-1]

3561. Theatrical Design I. (3). Designed to acquaint the student with new materials and methods of theatrical rendering of costumes and scene designs. Includes water color, acrylic, three dimensional models, and other media. [1007-1]

3562. Theatrical Design I. (3). Study of scenic design principles and historical styles in theatre design. PREREQUISITE: SPCH 3561. [1007-1]

4011. Performance and Production I. (3-9). Supervised work in actual university, community or professional theatre productions on an internship basis. Credit varies with amount of time and responsibility involved. May be repeated for a maximum of 18 semester hours of credit. [1007-1]

4401. Interpretation of Children's Literature. (3). Study of the adaptation of literature for individual and group performances in children's theatre and in instruction for elementary and secondary schools. Topics include: styles of literature, principles of performance, and techniques for performance adaptation. May be repeated for up to six hours credit with permission of instructor. [1007-1]

4421. Interpretation of Poetry. (3). Studies in the style and structure of poetry of specific types and periods, as related to the response and performance of the oral interpreter. PREREQUISITE: SPCH 3411. [1007-1]

4431. Interpretation of Prose. (3). Studies in the oral interpretation of prose fiction, with attention to various literary styles and structures. PREREQUISITE: SPCH 3411. [1007-1]

4441. Interpretation of Drama. (3). Oral performance of scenes from classical and modern drama. [1007-1]

4451. Interpretation of Shakespeare. (3). Studies in the oral presentation of scenes from selected comedies, histories, and tragedies, with exploration of character and dramatic structure. [1007-1]

4501. Stage Movement III. (3). A study of the different styles and concepts of movement in the context of the theatrical presentation. [1007-1]

4502. Stage Movement III. (3). A continuation of Speech 4501 emphasizing the complete coordination of all aspects of previous movement classes into a theatrical presentation. [1007-1]

dination of all aspects of previous movement classes into a theatrical presentation. [1007-1]

4503. Creative Dramatics. (3). Basic techniques and theories for the use of dramatization in elementary and secondary education. Topics include socio-drama, dramatization of school subjects and daily concerns, and improvisation and creation of dramatic plays. [1007-1]

4511. Stage Lighting I. (3). Study of elementary electricity and basic stage lighting techniques. [1007-1]

4512. Stage Lighting I. (3). A continuation of Speech 4511. Advanced theatre lighting design and execution. PREREQUISITE: SPCH 4511. [1007-1]

4523. Children's Theatre. (3). Exploration of theories and styles of children's theatre, application of principles to problems in production and preparation of plays designed for children's audiences. May be repeated for up to six hours credit with permission of instructor. [1007-1]

4531. Acting III. (3). Acting problems with continued work in acting styles. Term length assignments to scenes designed to develop ensemble acting. PREREQUISITE: SPCH 3532. [1007-8]

4532. Acting III. (3). A continuation of Speech 4531. [1007-8]

4551. Studies in Theatre History. (3). Special problems in Theatre History: The men and ideas which have shaped the theatre of the Western World from antiquity to the present. PREREQUISITE: SPCH 3551 and 3552. [1007-8]

4553. Directed Individual Studies in Theatre. (1-3). Designed for the advanced student who wishes to do concentrated study in a specific area of theatre. May be repeated for a maximum of six credit hours. PREREQUISITE: permission of the instructor. [1007-8]

4561. Stage Costuming I. (3). Study of basic costuming techniques. [1007-1]

4562. Stage Costuming I. (3). A continuation of Speech 4561. Survey of historic dress and the planning and rendering of costume designs. PREREQUISITE: SPCH 3561. [1007-1]

4563. Theatrical Design II. (3). A lecture-laboratory course covering the techniques of painting flat scenery for the stage. PREREQUISITE: SPCH 3562. [1007-1]

4564. Theatrical Design II. (3). Covers total production design—the coordination of all aspects of costume, scenery, and lighting into the whole of the production. PREREQUISITE: SPCH 4563. [1007-1]

4566. Undergraduate Seminar in Black Theatre. (3). Selected topics in contemporary black theatre. May be repeated up to six hours. PREREQUISITE: permission of the instructor. [1007-1]

4571. Playwriting. (3). A study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play. May be repeated for a maximum of 9 semester hours of credit. PREREQUISITE: permission of the instructor. [1007-8]

4581. Dramatic Theory and Criticism. (3). The major documents in dramatic theory and criticism from Aristotle to the present. [1007-1]

4591. Theatre Management. (3). A study of basic boxoffice and publicity procedures for the theatre. [1007-1]

4631. Acting for Film and Television. (3). This course will provide educational experience for the actor in the media of film and television, concentrating on dramatic, commercial and documentary properties. PREREQUISITE: SPCH 2531 (for Acting majors) —QR— SPCH 3823 or 3824. [1007-1]

4921. Play Production for Secondary Schools. (3). A survey of the problems of the play direc-

tor in high school. The course considers: choosing the play, casting, directing, technical aspects of production; then relates these items to the student, the school and the community.

[1007-1]

COMMUNICATION STUDIES (SPCH)

Dr. Walter Kirkpatrick, Director

1211. Voice and Diction. (3). Principles of effective voice usage. Emphasis on improving voice characteristics and diction. [1506-1]

1311. Public Speaking. (3). Study of the principles of ethical and effective public speaking, with practice in the construction and delivery of original speeches in the presence of an audience. [1506-1]

1781. Introduction to Rhetoric and Communication Arts. (3). Study of the principles and values underlying speech communication. Topics include: purposes of speech, forms of rhetoric, freedom of speech, communication processes and speech criticism. Not a performance course. [1506-1]

1782. Movies and Media in Modern Society. (3). Consideration of the development of the technology, industry, and aesthetics of film, radio, and television in relation to twentieth-century American society. PREREQUISITE: SPCH 1781 or permission of the instructor. [0601-1]

2321. Argumentation and Debate. (3). The basic principles of argumentation with emphasis on developing practical skills in analysis, reasoning, evidence, and organization of the argumentative speech. The role of debating in contemporary society is stressed. [1506-1]

2322. Persuasion. (3). Study and practice in meeting special demands of the persuasive speech situation. Advanced training in the use of arguments and the development of effective style. PREREQUISITE: SPCH 1311 or permission of the instructor. [1506-1]

2361. Black Rhetoric. (3). A study of the speeches and rhetoric of the black man's struggle in America. Emphasis on spokesmen such as Walker, Turner, Douglass, Washington, DuBois, Malcolm X, King, Carmichael, Baldwin, and Jones. [1506-1]

2781. Introduction to Rhetorical Theory. (3). A survey of theories of persuasion and communication from ancient to contemporary times. Emphasis on the classic tradition as it relates to interpersonal and societal communication. [1506-1]

2911. Speech for the Elementary Classroom Teacher. (3). A course designed to improve the speech of teachers. Emphasis is on voice and diction, classroom speaking, and oral interpretation of literature. [1506-1]

3011. Speech Communication in Organizations. (3). A study of information flow, communication systems, and communication break-down in contemporary organizations. Especially concerned with business, governmental, and institutional structures. [0601-1]

3013. Communication in Politics. (3). Study of the types of political communication between politicians and constituencies with special emphasis on presidential rhetoric and campaign speaking and communication via mass media. Includes practice in construction of model political speeches. [0601-1]

3301. Speech Communication Laboratory. (1). Independent and organized preparation for the study and practice of speech communication in non-classroom situations. Includes inter-collegiate forensic activities as well as community communication projects. One hours credit each semester for three hours of supervised work per week. [0601-8]

3341. Discussion. (3). Study and practice of the principles and techniques of discussion, dealing with current problems of wide interest and significance. [1506-8]

3371. Freedom and Responsibility of Speech. (3). The development of freedom of speech as a Western value and the attendant problems of ethical practice, limitations, and responsibility. [1506-1]

3372. Rhetoric in the Contemporary Environment. (3). Study of the speeches and rhetoric generated by major social and political issues since World War II. Analysis of the significance of rhetoric in developing and resolving the crises surrounding such issues. Consideration of the ethics of contemporary rhetoric. PREREQUISITE: SPCH 1781 or permission of the instructor. [1506-1]

3373. The Rhetoric of Social Protest. A study of the speeches, pamphlets, and rhetorical techniques of selected advocates of significant social change. Special attention will be given to the symbols, language forms, enthymemes, and means of audience adaptation of the genre of the rhetoric of agitation, protest, and revolution as well as to the role of rhetorical discourse in social change. PREREQUISITE: SPCH 1781 or permission of instructor. [1506-1]

3823. Radio-TV-Film Production Techniques and Aesthetics. (4). Basic production skills and theory: audio control, recording, still photography, studio and small-format TV production. Aesthetics of sound and the moving image. *Three hours lecture-demo-critique; two hours laboratory.* NOTE: *Students who have received credit for Speech 3841 will not be allowed credit for Speech 3823.* PREREQUISITE: Speech majors or permission of instructor. [0603-8]

3824. Radio-TV-Film Production and Aesthetics II. (4). Continuation of Speech 3823. Intermediate production skills and theory: audio mixing including film sound, motion picture photography and editing, graphics, TV production. Aesthetics of the moving image. Production of exercise. *Three hours lecture-demo-critique; two hours laboratory.* NOTE: *Students who have received credit for Speech 4891 will not be allowed credit for Speech 3824.* PREREQUISITES: SPCH 3823 and either SPCH 1781 or 1782. [0603-8]

3825. Advanced Radio Production. (3). Advanced training in radio production with emphasis on the applications of sound in broadcasting. Production of live and recorded commercials, and documentary, drama, and special events programs. NOTE: *Students who have received credit for Speech 3821 will not be allowed credit for Speech 3825.* PREREQUISITE: SPCH 3824. [0603-8]

3831. Campus Radio Staff and Management. (1-2). Announcing, production, and management work on the campus radio station. Repeatable to a maximum of 3 hours credit. PREREQUISITE: SPCH 3823 or permission of instructor. [0603-8]

3881. Radio-TV-Film and Society. (3). A study of the impact of broadcasting and film on society, and the reverse influence of society upon these media. PREREQUISITE: JOUR 1011. [0601-1]

4101. Contemporary Theories of Language. (3). An examination of the influence of language upon behavior, the limitations of language as a communicative system, and the relationship between language and thought. [1506-1]

4341. Interpersonal and Small Group Communication. (3). Advanced theory in the logical, psychological, and sociological investigation of issues in small groups. PREREQUISITE: SPCH 3341. [0601-8]

4361. History and Criticism of British Public Address. (3). A study and analysis of British

speakers and speaking from the 16th century to the present time. Emphasis will be placed on the speech situation, audience, issues and speakers. Such men as Fox, Pitt, Sheridan, Burke, Disraeli, and Churchill will be considered. Repeatable to a maximum of six hours with permission of the instructor. [0601-1]

4362. History and Criticism of American Public Address. (3). An analysis of political, religious and social speaking from colonial times to the present. Such men as Clay, Emerson, Lincoln, Webster, and the Roosevelts will be considered. Repeatable to a maximum of six hours with permission of the instructor. [1506-1]

4363. Anglo-American Public Address. (3). A history and criticism of public argument in the British Empire, 1660-1784. Special emphasis on the emergence of Whig liberalism, The American Revolution, and the politics of the Empire. [1506-1]

4366. Undergraduate Seminar in Oral Communication. (3). Stresses individual work, preparation of papers and reports, and extensive class discussion; topics vary from semester to semester. May be repeated up to six hours. [1506-8]

4367. International Communication. (3). An analysis of the role of communication, especially rhetorical communication, in the decision-making, information, and propaganda of foreign policy issues. Special emphasis on executive-congressional foreign policy debates, diplomatic rhetoric, and information systems within a foreign policy crisis context. [1506-1]

4371. Rhetorical Criticism. (3). Problems in the theory and criticism of classical and modern rhetorical works; application of the principles of rhetoric to the critical evaluations of current public speaking practice. [1506-1]

4372. History of Speech Education. (3). An examination of speech educators, their theories, practices, and place in history of speech education from classical to modern times. PREREQUISITE: upper division standing and permission of the instructor. [1506-1]

4373. Seminar in Interracial Communication. (3). A study of the special problems encountered in communication between blacks and whites. Readings, discussion, and field study on how prejudice, stereotypes, and self-concepts can affect communication. Exploration of rhetoric methods to minimize these problems. PREREQUISITE: SPCH 2361 or permission of instructor. [0601-1]

4374. Directed Studies in Communication Arts. (3). Independent research in areas of special interest, including rhetoric, radio, television, and film. NOTE: *Students who have received credit for Speech 4801 will not be allowed credit for Speech 4374.* PREREQUISITE: permission of area head. [0601-8]

4375. Intercultural Communication. (3). A study of the special problems encountered in communications between people of different cultural backgrounds. The study focuses upon understanding the communicative interaction between and among people with different national/cultural backgrounds and functioning more effectively in multi-cultural settings. [0605-1]

4802. Internship. (1-3). Field studies in communication. Supervised practical work with a government institution, film company, or TV station. Written analysis of experience required. PREREQUISITE: permission of area head. [0603-8]

4810. Broadcast Regulation and Program Policy. (3). The role of those agencies controlling broadcasting and the development of regulation and policies concerning operations and programming. PREREQUISITE: SPCH 3823. [0603-1]

4811. Radio and Television Programming. (3). Analysis of individual program formats (with examples); use of this information along with ratings and other audience research to study the design of program schedules. PREREQUISITES: SPCH 1781, 1782. [0603-1]

4831. Radio and Television Sales and Advertising. (3). The relation of radio and television advertising to the station, network, and station representative; the role of sponsors, agencies, and allied groups. PREREQUISITE: SPCH 3823. [0603-1]

4842. Advanced Television Production. (3). Advanced techniques of studio and small-format TV production including staging and direction of programs. NOTE: *Students who have received credit for Speech 3842 will not be allowed credit for Speech 4842.* PREREQUISITE: SPCH 3824. [0603-8]

4851. Development of Contemporary Film. (3). Study of theatrical film from 1925 to the present. Study and critique of selected films. NOTE: *Students who have received credit for Speech 3892 will not be allowed credit for Speech 4851.* PREREQUISITES: SPCH 1781, 1782, or permission of instructor. [0603-1]

4852. Origins of Film. (3). Study of the origins and growth of the motion picture industry through the silent film era. Study and critique of selected films. NOTE: *Students who have received credit for Speech 3891 will not be allowed credit for Speech 4852.* PREREQUISITES: SPCH 1781, 1782, or permission of instructor. [0603-1]

4853. Documentary Form in Film. (3). History and criticism of documentary, educational, and industrial films. Study of the non-fiction form. PREREQUISITES: SPCH 1781, SPCH 1782, or permission of instructor. [0603-1]

4854. Documentary Form in Broadcasting. (3). History and criticism of non-fiction broadcasting and cablecasting. PREREQUISITE: SPCH 1781, SPCH 1782, or permission of instructor. [0603-1]

4857. History of American Broadcasting. (3). A comprehensive study of the history of the broadcasting industry in the United States as it developed from 1895 to the present. Use of primary sources. PREREQUISITES: SPCH 1781, 1782. [0603-1]

4871. Radio and Television Station Management. (3). Theories of management; study and

analysis of the special problems and situations confronting the manager of a broadcasting station, including personnel, operations, government regulations, programming, and sales. PREREQUISITE: SPCH 4811 or permission of the instructor. [0603-8]

4892. Film Production. (3). A study of the operation of 16 mm silent/sound cameras, continuity principles, composition, angles, lighting, sound recording and basic editing techniques. PREREQUISITE: SPCH 3824, or permission of instructor. [0603-8]

4922. Directing the Forensics Program. (3). Designed for the teacher charged with the responsibility of developing and directing interscholastic or intercollegiate competitive speech programs; the study of the historical background for such programs, organizing techniques, recruiting, tournament direction, and other related concerns. [1506-1]

Graduate courses in Speech and Drama: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.

THE COLLEGE OF EDUCATION

CURRICULUM AND INSTRUCTION

ASSOCIATE PROFESSOR ROGER BENNETT,

Chairman

Room 424, The College of Education Building

The Department of Curriculum and Instruction offers majors and minors in elementary education, secondary education and a major in early childhood education.

M650 ELEMENTARY EDUCATION (ELED)

Requirements for the majors and minor are listed on page 78.

1201. Reading Skills for University Students. (2). Offered for students who feel a need to increase their reading efficiency through the application of prescribed, individualized study techniques: CREDIT FOR THIS COURSE MAY NOT BE COUNTED TOWARD ANY DEGREE UNLESS PRIOR PERMISSION HAS BEEN OBTAINED FROM THE DEAN OF THE COLLEGE WHICH GRANTS THE DEGREE. [0802-1]

2211. Introduction to Early Childhood Education. (3). Principles and practices of early childhood education programming, infancy through third grade, in the United States. Supervised lab experiences in varied socio-economic day care centers, kindergartens, and primary grades. *Two lecture and two laboratory hours per week.* [0802-1]

3212. Communication Interaction in Early Childhood Education. (3). Application of selected principles of communication to teacher-child interaction; classroom management; teaching strategies; and program development, infancy through third grade. *Two lecture and two laboratory hours per week.* [0823-1]

3241. Language Arts in the Elementary School. (3). Designed to develop an understanding of the basic concepts of language. Special consideration given to how language arts (listening, speaking, reading and writing) are learned and taught. The interrelationships of these skills stressed to better utilize these kinds of activities in teaching children to think clearly and communicate thoughts. PREREQUISITES: EDFD 2011; EDPS 2111, 3121. [0802-1]

3251. Teaching Methods in Elementary School Mathematics. (3). A study of newer math concepts and activities to be used in developing understanding. PREREQUISITES: EDFD 2011; EDPS 2111, and 3121. [0833-1]

3261. Teaching Methods in Elementary School Science. (3). Participation in experiences which emphasize the process approach in the development of basic science concepts, including the area of resource use. Involvement with variety of materials. PREREQUISITES: EDFD 2011; EDPS 2111, 3121. [0834-1]

3271. Teaching Methods in Elementary School Social Studies. (3). A basic course involving methods and materials appropriate to each developmental level of the elementary school child. PREREQUISITES: EDFD 2011; EDPS 2111, 3121. [0802-1]

3412. Materials and Methods for Affective Domain in Early Childhood Education. (3). Theory and content of affective development in early childhood education, infancy through third grade; implications for designing programs, materials and teaching strategies in the creative arts. *Two lecture hours, two lab hours per week.* Supervised lab experiences will be in varied socio-economic day care centers, nursery schools, kindergartens, and primary grades. PREREQUISITE: ELED 3212. [0803-1]

3803. Motor Learning and Teaching Methods in Physical Education. (3). Inquiry into perceptual motor and psychomotor behavior. Emphasis on variables conducive to skill acquisition and their implications for formulating teacher behavior. (Same as PHED 3803.) [0835-1]

3901. Special Problems in Instruction. (1 to 3). Individual investigation in the area of instruction. PREREQUISITE: experience as a teacher or satisfactory evidence of being qualified to benefit from such a course. [0829-8]

4211. Comparative Study in Early Childhood Education. (3-6). The study of programs for young children in United States and other countries focusing on the relationship between the program and the values the society holds. Comparisons of programs will be made with emphasis on how aspects of a program could be modified to meet the needs of children from a different culture. Foreign and domestic travel may be planned in conjunction with this course. PREREQUISITE: consent of instructor. [0823-1]

4212. Materials and Methods for Cognitive Domain in Early Childhood Education. (3). Materials and instructional techniques appropriate for infancy through third grade; cognitive development, concept formation, instructional objectives; preparation and implementation of academic content as in math, natural and social sciences, and language arts. *Two lecture hours and two lab hours per week.* Supervised lab experiences will be in varied socio-economic day care centers, nursery schools, kindergarten and primary grades. PREREQUISITE: ELED 3212. [0803-1]

4242. The Teaching of Developmental Reading. (3). Designed to survey the theoretical background for developmental reading instruction. Practical consideration given to methods and materials used to teach the sequential skills in the primary and intermediate grades. PREREQUISITE: ELED 3241 or classroom experience. [0830-1]

4243. Corrective Reading. (3). This course has been designed to develop a teacher's ability to use informal diagnostic techniques in reading. Emphasis is placed on using these results for instructional purposes. The use of standardized test results is also reviewed to give the teacher an accurate means of assigning materials at a student's functional or instructional reading level. PREREQUISITE: ELED 4242. [0830-1]

4252. The Teaching of Modern Mathematics in the Elementary School (Grades 1-8). (3). An advanced course acquainting prospective and experienced teachers with the mathematical processes required of the elementary school child and the reasons that certain methods are used. [0833-1]

4411. Home School Relationships in Early Childhood Education. (3). Parent-Teacher-Child Relationships; conferring, interviewing, reporting procedures and techniques; pupil evaluation methods; atypical child characteristics. *Two lecture hours, two lab hours per week.* Supervised lab experiences will be in varied socio-economic day care centers, nursery schools, kindergartens, and primary grades. PREREQUISITES: ELED 2211, 3212, 3412, 4212. [0802-1]

4511. Comparison of Program Models in Early Childhood Education. (3). A study of group models, infancy through 8 years of age, including home-oriented, television, school-based, day care, multi-ethnic and compensatory models. Review of related research. PREREQUISITE: Early Childhood Education Major Core. [0802-1]

4512. Comparison of Child Study Models in Early Childhood Education. (3). Comparison of techniques of studying young children, infancy through third grade, in a variety of individual and group models. Review of related research and literature. PREREQUISITE: Early Childhood Education Major Core. [0802-1]

4701-20. Workshops in Elementary Education. These are workshops for teachers who wish to improve their teaching skills. Various curriculum areas will be included for study. Students will explore many alternative solutions to problems of teaching. (Satisfactory-Unsatisfactory, only).

NOTE: Not more than 9 semester hours of workshop credit can be applied toward a degree.

4701—Workshop. Improvement of Current Instruction. (1-3). [0829-1]

4702—Workshop. For Teachers of the Disadvantaged. (1-3). [0813-1]

4703—Workshop. For Elementary Curriculum. (1-3). [0829-1]

4704—Workshop. Elementary Science Education. (1-3). [0834-1]

4751. Workshop in the Reading Program. (3 to 6). Designed to utilize the reading conference, group study, discussion, demonstration, and directed practice to study problems of reading. Participants will have the opportunity to pursue their own reading related problems of content, methods, materials, and evaluation. (Satisfactory-Unsatisfactory, only). [0829-1]

4761. Aerospace Education in Schools. (3). The purpose of this course is to provide teachers with aerospace knowledge and experiences and ways of utilizing this knowledge and experience in the classroom. (Satisfactory-Unsatisfactory). [0834-1]

***4811. Directed Student Teaching in the Kindergarten. (3 to 6).** Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups. Six hours credit required; exceptions must be approved by the Dean of the College of Education. (Satisfactory-Unsatisfactory). [0802-5]

***4821. Directed Student Teaching in the Elementary School. (3 to 9).** Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups. (Satisfactory-Unsatisfactory). [0802-5]

***4822. Directed Student Teaching in the Elementary School. (3 to 6).** For the student who has completed six semester hours or less of student teaching in the elementary school and desires some additional experience. (Satisfactory-Unsatisfactory). [0802-5]

Graduate courses in Elementary Education: For course descriptions and details of the graduate program, see The Bulletin of The Graduate School.

*For detailed information concerning the requirements for admission to the student teaching program, see page 71.

SECONDARY EDUCATION

Requirements for majors and minors in secondary education are listed on page 78.

M680 EDUCATION (EDUC)

3301. Analysis of Teaching. (1-3). Use of interaction analysis and related nonverbal behavior

techniques to describe pupil-teacher classroom interchange and use of microteaching to identify and analyze teaching skills. PREREQUISITE: EDPS 3121. [0801-1]

4301. Audio-Visual Instructional Materials in Education. (3). Introduction to means for effective preparation and utilization of selected multimedia materials. Laboratory practice in operation of audio-visual equipment and development of selected materials and techniques centered around student interests. Emphasis on the implications of audio-visual media for teaching. [0829-1]

4344. Teaching Reading Communication Skills in the Content Areas. (3). The course is designed for teachers of content subjects at all levels, exploring methods, materials, and organizational patterns by which reading skills can be developed and improved with other communication skills through integration with teaching strategies in content subjects. [0830-1]

M670 SECONDARY EDUCATION (SCED)

***3321. Materials and Methods in High School Art. (3).** (SAME as ART 4421) [0831-1]

***3322. Materials and Methods in High School Music. (3).** [0832-1]

***3331. Motor Learning and Teaching Methods in Physical Education. (3).** (SAME as PHED 3803) [0835-1]

***3332. Materials and Methods in Health Education. (3).** (SAME as HLTH 3102) [0837-1]

3335. Driver and Traffic Safety Education I. (3). A course designed to meet minimal qualification requirements for teachers of driver education in the secondary schools. A study of materials and methods that may be used in organizing and conducting a Driver Education program in the secondary schools. PREREQUISITES: EDFD 2011; EDPS 2111, 3121 and a valid driver's license. [0836-1]

3336. Driver and Traffic Safety Education II. (3). Designed to give the student advanced professional preparation to meet the traffic safety educational needs of schools and communities. Included is a review of research related to accident causation, teacher preparation, current materials and methods used in organizing and administering a driver and traffic safety education program in a secondary school. PREREQUISITE: SCED 3335 or equivalent. [0836-1]

***3341. Materials and Methods in High School English. (3).** [0803-1]

***3342. Materials and Methods in High School French. (3).** [0803-1]

***3343. Materials and Methods in High School German. (3).** [0803-1]

***3344. Materials and Methods in High School Latin. (3).** [0803-1]

***3345. Materials and Methods in High School Spanish. (3).** [0803-1]

***3346. Materials and Methods in High School Speech. (3).** [0803-1]

***3347. Materials and Methods in High School Russian. (3).** [0803-1]

***3351. Materials and Methods in High School Mathematics. (3).** [0833-1]

***3361. Materials and Methods in High School Biology. (3).** [0834-1]

***3362. Materials and Methods in High School Physical Science. (3).** [0834-1]

***3371. Materials and Methods in High School Social Studies. (3).** [0803-1]

***3372. Materials and Methods in High School Psychology. (3).** [0803-1]

***3381. Materials and Methods in Vocational Business Subjects. (3).** [0839-1]

***3382. Materials and Methods in Bookkeeping and General Business Subjects. (3).** [0838-1]

***3383. Materials and Methods in High School Home Economics. (3).** [0803-1]

***3384. Materials and Methods in High School Industrial Arts. (3).** [0839-1]

***NOTE: The methods courses in high school subjects include: objectives, content, and grade placement of subjects; tools of instruction; organization of courses; and teaching procedures and practices.**

3901. Special Problems in Instruction. (1 to 6). Individual investigation in the area of instruction. PREREQUISITE: experience as a teacher or satisfactory evidence of being qualified to benefit from such a course. [0829-8]

4306. Educational Methods for Adult Education. (3). This course places emphasis on trends, instructional and resource materials, and instructional techniques used in adult educational programs. [0807-1]

4337. Seminar in Driver and Traffic Safety Education. (3). An in-depth study of current problems, research and research methodology in driver and traffic safety education. PREREQUISITE: SCED 3335 or equivalent. [0836-1]

4341. Teaching Literature for Adolescents. (3). Theories and techniques of teaching literature for adolescents at the secondary level; survey and analysis of appropriate fiction, drama, and poetry for the teenage reader. [0803-1]

4441. Curriculum Problems and Trends in the Secondary School. (3). This course is designed to afford some help in the clarification of secondary school educational purposes and in determination of appropriate learning activities. It deals with the functional teaching objectives, ways of obtaining these objectives, methods of establishing relationships among the school subjects, developing the core curriculum, and the organization and use of units of work. [0829-1]

4701-20. Workshops in Secondary Education. A study of selected phases of the secondary school curriculum through group study. These courses are designed to assist both in-service and prospective teachers of grades 7-12 in improvement of the teaching-learning processes. Attention is given to common elements of basic methodology, utilization of appropriate materials and resources, and evaluative criteria. (Satisfactory-Unsatisfactory, only).

NOTE: Not more than 9 semester hours of workshop credit can be applied toward a degree.

SCED 4701—Workshop—Improvement of Instruction (1 to 3) [0829-1]

SCED 4702—Workshop—Secondary Curriculum (1 to 3) [0829-1]

SCED 4703—Workshop—Social Studies Education (1 to 3) [0803-1]

SCED 4704—Workshop—Language Arts Education (1 to 3) [0803-1]

SCED 4705—Workshop - Science Education (1 to 3) [0834-1]

SCED 4706—Workshop—Math Education (1 to 3) [0833-1]

SCED 4707—Workshop - Driver and Traffic Safety Education (1 to 3) [0836-1]

SCED 4708—Workshop - Newspaper in the Classroom (1 to 3) [0803-1]

SCED 4709—Workshop - Middle School (1 to 3) [0803-1]

***4841. Directed Student Teaching in the Secondary School. (3 to 9).** Observation of the growth and development of pupils and of methods of teaching; participation in school activities,

culminating in assuming responsibility for teaching entire groups. (Satisfactory-Unsatisfactory). [0803-5]

***4842. Directed Student Teaching in the Secondary School. (3 to 6).** For the student who has completed six semester hours or less of student teaching on the secondary level and desires some additional experience. (Satisfactory-Unsatisfactory). [0803-5]

Graduate Courses in Secondary Education: For full details of the graduate program, see The Bulletin of The Graduate School.

*For detailed information concerning the requirements for admission to the student teaching program, see page 71.

DISTRIBUTIVE EDUCATION

PROFESSOR C. EDWIN PEARSON, *Chairman*

Room 101, The College of Education Building

The Department of Distributive Education offers a major and a minor to prepare teacher-coordinators for vocational marketing programs in high schools, technical institutes and junior colleges. The requirements are listed on page 78.

(Students majoring in Marketing, Fashion Merchandising, or Home Furnishings Merchandising may secure certificate to teach Distributive Education through this department.)

M600 DISTRIBUTIVE EDUCATION (DTED)

3010. Cooperative Occupational Education. (3). An introductory study of occupational education programs which use work experience coordinated with related in-school instruction to provide career preparation in marketing, office, industry, home economics, health and other fields of employment. (Same as HMEC 3010). [0838-1]

4611. Principles and Philosophy of Vocational Education. (3). The history, philosophy, principles and objectives of vocational education; curriculum problems; contribution of vocational-technical education to general education; trends in vocational-technical education. (Same as HMEC 4611). [0838-1]

4630. Materials and Methods in Distributive Education. (3). The instructional materials and techniques used in high school and post-high school Distributive Education classes. [0838-1]

4641. Techniques of Coordination of Cooperative Occupational Education. (3). Selecting training agencies; developing job analyses; selecting and briefing the training supervisor; selecting and working with advisory committees; utilizing other community resources. PREREQUISITE: DTED 4630 or consent of instructor. [0838-1]

4651. Basic Problems in Distributive Education. (1-3). A study of current trends and problems related to distributive education; viewpoints of leaders in the field; special attention to problems of students enrolled. [0838-8]

4680. Development and Supervision of Vocational Student Organizations. (3). Aims and objectives of vocational student organizations and their value in occupational preparation; their development, curricular integration, operation and evaluation. [0838-1]

4690. Workshop in Distributive Education. (1-6). Designed to meet the needs of inservice teachers by offering an opportunity to work cooperatively on problems which are real to teaching situations and which meet the needs of the individual. PREREQUISITE: Teaching experience and permission of director of the workshop. (Satisfactory-Unsatisfactory only). [0838-1]

4700. Distributive Education Study Tour. (1-3). An opportunity to gain on-the-scene knowledge about specific areas of instruction within Dis-

tributive Education. **PREREQUISITES:** Permission by instructor. May be repeated; however, the student should consult with major advisor to determine the maximum credit which may be applied to a degree program [0838-9]

***4871. Student Teaching in Distributive Education. (3-9).** Observation of the operation of a high school Distributive Education program and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching and coordinating entire groups. **PREREQUISITE:** DTED 4630. (Satisfactory-Unsatisfactory). [0838-5]

Graduate courses in Distributive Education: For details of the graduate program, see The Bulletin of The Graduate School.

*For detailed information concerning the requirements for admission to the student teaching program, see page 71.

FOUNDATIONS OF EDUCATION

PROFESSOR CARLTON H. BOWYER, *Chairman*
Room 404, The College of Education Building

The department does not offer a major or minor at the undergraduate level. Its primary role at the undergraduate level is to provide study in the socio-cultural and psychological foundations of education for all students seeking to qualify for teacher certification and/or the Bachelor of Science in Education degree.

M700 EDUCATIONAL FOUNDATIONS (EDFD)

1101. Exploring Careers in Education. (1). Provides experiences designed to help students develop on-the-scene familiarity with varied educational situations, move toward determination of a preferred teaching interest, observe cultural differences, become aware of socio-educational relationships, and develop backgrounds clarifying and adding meaning to other professional courses. [0801-1]

2011. Foundations of Educational Thought and Practice. (3). A consideration of the development of Western education as directed by the precedents and contributions of (1) history, (2) the underlying philosophical theories, (3) the influence of society at large, and (4) the consequent and contemporary practices in American education. [0821-1]

4008. Special Problems in Cultural Foundations of Education. (1-3). Individual investigation and report of a specific problem under the direction of a faculty member. **PREREQUISITE:** permission of the instructor. [0813-8]

4012. History of American Education. (3). This course aims to trace, describe, and evaluate the development and growth of educational practices, institutions, and theories in the United States from the colonial period to the present. [0821-1]

4021. Philosophy of Education. (3). A guide to the philosophical treatment of educational problems, designed to develop in the student some facility in critical and systematic thinking. [0821-1]

4031. School and Society. (3). Group behavior in the educational process; sociological factors involved in the interaction of pupils, teachers, administrators, and community. [0821-1]

4032. Sociological and Psychological Implications of Urban Education. (3). Examination of literature on the sociology and psychology of urban education, including a study of changing trends in urban education. Emphasis is on the implications for educators in an urban setting. [0821-1]

4042. Survey of Educational Systems in Latin America. (3). This course examines the develop-

ment of selected educational systems in Central and South America, determining how religious, economic, and political forces shaped educational policies and practices and how education in these systems differs from that in the United States. [0821-1]

4051. Anthropology and Education. (3). (Same as ANTH 4051). A study of the cultural transmission process with emphasis on identifying different behavioral, cognitive, and learning styles of various ethnic groups within American society and selected third world countries. Encounters of U.S. subcultural groups within the public education system are examined. [0821-1]

4701-10. Workshops in the Foundations of Education. (Satisfactory-Unsatisfactory, only).

NOTE: Not more than 9 semester hours of workshop credit can be applied toward a degree.

4701. Workshop in the Social, Cultural and Behavioral Characteristics of the Inner-City Learner. (1-3). [0822-1]

4702. Workshop in the Social, Cultural and Behavioral Characteristics of the Suburban School Learner. (1-3). [0822-1]

RESEARCH METHODOLOGY AND STATISTICS (EDRS) M710

4511. Measurement and Evaluation. (3). The principles underlying the construction of objective tests and the problems relating to the use and interpretation of school measurements by teachers and administrators, practice in the construction of new-type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements. [0825-1]

4518. Special Problems in Educational Measurement. (1-3). Individual investigation and report of a specific problem under the direction of a faculty member. **PREREQUISITE:** permission of the instructor. [0824-8]

4541. Introduction to Educational Statistics and Practicum Applications I. (3). This course deals with techniques used in educational research. The course contains the development of skills dealing with mathematical probability, frequency functions, moments, and measures of dispersion. Applications of course content will be coordinated with the research seminar. **PREREQUISITE:** restricted to selected students. [0824-1]

4542. Introduction to Educational Statistics and Practicum Applications II. (3). The course includes the use of statistics in research designs, the problem of replicability, and the methodology used in proposing and reporting research. The course will be directed toward the development of competence in statistical applications. **PREREQUISITE:** EDRS 4541, and restricted to selected students. [0824-1]

M720 EDUCATIONAL PSYCHOLOGY (EDPS)

2111. Human Growth and Development. (3). An attempt to help the student understand child nature and development, to appreciate the fact that all behavior is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community. [0822-1]

3121. The Psychology of Learning. (3). The psychology of learning as applied to activities under the guidance of the school. **PREREQUISITE:** Student must have filed and not been rejected for admission to the Teacher Education Program or declare no intention of securing teacher certification. [0822-1]

4108. Special Problems in Educational Psychology. (1-3). Individual investigation and report of a specific problem under the direction of a faculty member. **PREREQUISITE:** permission of the instructor. [0822-8]

4112. The Psychology of Adolescence. (3). A laboratory study of the physiological, sociological, and psychological factors which act as antecedents of adolescent behavior as well as categories for the observation of behavioral outcomes during adolescence. Emphasis will be placed on the relationship of specific behaviors to problems encountered by teachers of adolescents. Community facilities will be used for laboratory observations. [0822-1]

4122. Management of Classroom Behavior. (1-3). A study of psychological principles and paradigms that can be used by educators to cope with behavioral problems and to improve the social and emotional behavior of pupils. Emphasis is placed on the requirement that students in this course demonstrate competence in applying psychological principles in appropriate educational laboratory settings. **LECTURE/LAB:** Approximately 2/3 of total course time will be spent in academic study; about 1/3 in laboratory application. [0822-1]

4701-5. Workshops in the Psychological Foundations of Education. (Satisfactory-Unsatisfactory, only). [0822-1]

NOTE: Not more than 9 semester hours of workshop credit can be applied toward a degree.

4701. Workshop in the Psychological Effects of Learner Interaction. (1-3).

4702. Workshop in Learning Problems in the Elementary School. (1-3).

4703. Workshop Learning Problems in the Secondary School. (1-3).

GUIDANCE AND PERSONNEL SERVICES

PROFESSOR ROBERT E. DAVIS, *Chairman*
Room 123, Patterson Building

The Department of Guidance and Personnel Services offers majors at the graduate level only.

M730 GUIDANCE (GUID)

1661. Career Development. (3). Relationship of interests, aptitudes and careers. Experiences include exploration of work settings and activities to support individual career planning. Students are expected to investigate work settings, relate this investigation to academic programs, and utilize this information in individual career development. [0826-1]

4611. Introduction to Guidance. (3). Principles and concepts, organization and administration, and implementation of guidance services in various settings with emphasis on schools. Personal growth and interpersonal relationship experiences provide opportunities for gaining skills applicable to a wide range of human relations situations. Students will demonstrate understanding of guidance services and skills in interpersonal relationships. [0826-1]

4621. Humanistic Interactions in the Classroom. (3). Human relations exercises and other personal growth experiences designed to establish effective learning climates. Students must demonstrate: (1) communication skills by working effectively in groups and one to one relationships, and (2) skill in identifying and referring students to appropriate resources. [0826-8]

4691. Practicum in Residence Hall Staff Counseling and Advising. (3). Practical experience for residence hall staff. Instruction and supervision will be provided. The practicum deals with individual and group activities in counseling, advising, communication, and leadership. Concerns such as drug abuse, family planning information, and student discipline will be considered. It utilizes interdepartmental disciplines. (Satisfactory-Unsatisfactory only). [0826-8]

4693. Practicum in Leadership Development. (3). Supervised experiences for campus student leaders. Practice in leadership style, communication, advising and counseling. Students will demonstrate leadership development through coordination of actual events. (Satisfactory-Unsatisfactory only). [0826-8]

4770-79. Workshop in Guidance. (1-3 each). Designed to offer continuing growth to the professional in the field of guidance and counseling. Experiences include application and study in the field designated by the specific workshop number. The student is expected to develop appropriate skills and attitudes. (Satisfactory-Unsatisfactory only). [0826-1]

NOTE: Not more than 9 semester hours of Workshop credit can be applied toward a degree.

- 4472. Workshop in Corrections Counseling. (3).**
- 4773. Workshop in Group Process. (1-3).**
- 4774. Workshop in Community Services. (1-3).**
- 4775. Workshop in Student Appraisal. (1-3).**
- 4776. Workshop in Career Guidance. (1-3).**
- 4777. Workshop in Pupil Personnel Services. (1-3).**
- 4778. Workshop in Counseling. (1-3).**
- 4779. Workshop in College Student Personnel Services. (1-3).**

4781. Counseling Strategies for Crisis Intervention. (3). Process of crisis intervention. Study and practice in understanding crisis induced dysfunctional behavior, recognizing crisis situations, and crisis counseling procedures. Students will demonstrate competency in assisting in safely disengaging crisis participants, providing follow-up and referral. [0826-8]

HEALTH, PHYSICAL EDUCATION, AND RECREATION

PROFESSOR MELVIN A. HUMPHREYS,
Acting Chairman
Room 211, Field House

Majors and/or minors are offered in (1) health, (2) physical education, and (3) recreation and park administration. Requirements are listed on page 78.

RECREATIONAL THERAPY PROGRAMS

The University, in cooperation with Veterans Hospital, offers a program in recreational therapy designed to prepare the student to meet civil service requirements. For further information students should consult with the chairman of the Department of Health, Physical Education, and Recreation.

M740 HEALTH (HLTH)

- 1102. Personal Health. (3).** The physiological basis of correct living, including fundamental biological facts; the psychological aspects of human behavior as they affect the individual health conduct and mental hygiene; the agents of disease and modern scientific methods of controlling them. [0837-1]
- 1202. Introduction to Community Health. (3).** A study of the health problems requiring community action. An introduction to the official and non-official health agencies whose programs are designed for the prevention of disease and disorders and the conservation and promotion of health. Activities in the areas of environmental health, sanitation, epidemiology, health education, and related areas are included. [0837-1]
- 1302. Foundations of Health Science. (3).** A historical and philosophical study of the growth and development of health science. [0837-1]

- 2102. First Aid and Emergency Care. (3).** Designed to assist the student in safety skills and techniques of immediate and temporary care in the event of an injury or sudden illness. Successful completion qualifies the student for the standard first aid and personal safety ARC certificate. [0837-1]
- 2202. Safety Education. (3).** Stress is placed on the causes of accidents and action designed for the prevention of accidents in the home, school, and community. An examination of content and materials for safety education in the school instructional program. [0837-1]
- 3102. Materials and Methods in Health Education. (3).** Methods, materials, and resources for health teaching with emphasis on improving health behavior through sound health teaching. PREREQUISITES: EDFD 2011; EDPS 2111, 3121. [0837-1]
- 3202. The School Health Program. (3).** Organization of the total health program including health services, healthful school environment and health instruction. Emphasis is placed on methods of organizing and implementing health services in the schools; screening tests, detection of defects and follow-up; and the promotion of health through the school environment. [0837-1]
- 3306. Elementary School Health Education. (3).** The school health program involving health services, healthful school living, and health instruction is considered. Content and materials suitable for an elementary school health course are stressed. [0837-1]
- 3402. Instructor's Course in First Aid. (2).** Advanced consideration of first aid subject matter; orientation in methods, techniques, and teaching devices in first aid courses, and practical classroom experience. Successful completion of this course qualifies one for Red Cross first aid Instructor's certificate. PREREQUISITE: HLTH 2102 or ARC standard first aid and personal safety certificate. [0836-1]
- 3502. Prevention and Care of Athletic Injuries. (3).** Practical and theoretical aspects of treatment of athletic injuries in an athletic training program; supplies, training table, therapeutic equipment, and techniques in conditioning and bandaging. [0837-1]
- 4102. Critical Issues in Health. (3).** Critical and controversial issues of health are explored. [0837-1]
- 4202-20. Workshops in Health. (1-6).** Special study of selected phases of health and health education through group study. This course is designed to provide indepth study in areas of interest to persons in health education and related fields. (Satisfactory-Unsatisfactory, IP). [0837-1]
- 4202. Workshop in School and Community Health. (1-3).**
- 4203. Workshop in Death and Dying. (1-3).**
- 4204. Workshop in Sexuality Education. (1-3).**
- 4205. Workshop in Drug Education. (1-3).**
- 4206. Workshop in Environmental Health. (1-3).**
- 4302. Observation in Community Agencies. (3).** An introduction to the purposes, objectives, functions, and programs of a variety of community health and welfare agencies, with opportunities to visit official and volunteer agencies. Application should be made at least 60 days before the student plans to enroll in the course. PREREQUISITE: permission of the chairman of the Department of Health, Physical Education, and Recreation. [0837-1]
- 4402. Practicum in Public Health Education. (1-6).** Field experience in public health education. Practical work under supervision of gov-

- ernment or voluntary agencies. (Satisfactory-Unsatisfactory, IP). [0837-8]
- 4502. Problems in Health Education. (1 to 3).** Designed to afford opportunities for prospective or in-service school and other professional personnel to work individually or in groups on health education factors in the solution of practical problems. PREREQUISITE: permission of the instructor. NOTE: Credit may be earned in only one of the following courses: HLTH 4502, PHED 4303. [0837-8]
- 4602. Organization and Administration in Health. (3).** A study of the basic functions, principles, and procedures of organization and administration as applied to health. Emphasis is placed on the relationship and responsibilities of personnel in planning, promoting, and improving and evaluating the total health activities in the family-centered health services. Legal and legislative aspects of health activities are included. [0837-1]
- 4702. Trends and Problems in Public Health. (3).** A review of the historical development and current trends in community health; the various needs and demands for medical care; the contribution of the professional personnel in providing for total health services and education. [0837-1]

M750 PHYSICAL EDUCATION (PHED)

- 1103. Orientation for Physical Education Majors and Minors. (2).** Seminars in programs, career opportunities, professional societies, and literature in health, physical education, recreation, and related areas. Will meet twice weekly. [0835-1]
- 1001-1941. Selected Physical Activities. (2).** [0835-1]

Required Physical Education courses are to be selected from the following courses.

NOTE 1: The prerequisite for each advanced activity course is the introductory course or its equivalent.

NOTE 2: Any student except those with a major or minor in Physical Education has the option of taking these activity courses for a letter grade or on a credit/no credit basis.

- 1001. Figure Control and Conditioning
- 1103. See description above
- 1201. Adaptive Activity. (May be repeated for maximum of 4 semester hours.)
- 1301. Weightlifting (men)
- 1331. Camping
- 1332. Advanced Camping
- 1361. Equestrian
- 1412. Judo
- 1413. Advanced Judo
- 1431. Wrestling
- 1432. Advanced Wrestling
- 1441. Karate
- 1442. Advanced Karate
- 1451. Boxing Skills
- 1461. Fencing
- 1501. Tennis
- 1502. Advanced Tennis
- 1521. Four-Wall Racket Sports
- 1522. Advanced Four-Wall Racket Sports
- 1531. Handball
- 1532. Advanced Handball
- 1541. Badminton
- 1542. Advanced Badminton
- 1551. Archery
- 1561. Bowling
- 1571. Golf
- 1572. Advanced Golf
- 1581. Recreational Games
- 1621. Gymnastics
- 1622. Advanced Gymnastics
- 1651. Rifery
- 1711. Beginning Swimming

- 1712. Elementary Swimming
- 1713. Intermediate Swimming
- *1721. Survival Swimming
- *1722. Swimming-Lifesaving
- *1731. Synchronized Swimming
- *1741. Advanced Swimming
- *1751. Water Polo
- *1761. Springboard Diving
- *1762. Advanced Springboard Diving
- *1771. Scuba
- *1772. Advanced Scuba
- *1781. Canoeing
- 1811. Rhythms for Elementary School
- 1812. Square and Round Dance
- 1813. Folk and Social Dance
- 1821. Modern Dance
- 1822. Advanced Modern Dance
- 1823. Adagio
- 1911. Softball
- 1921. Basketball
- 1922. Volleyball-Basketball
- 1923. Volleyball
- 1931. Soccer and Fieldsports
- 1941. Track and Field Events

*The prerequisite for these courses is Physical Education 1713.

2003. Analysis of Movement. (3). Designed to develop a basic understanding of how and where the body moves and what the body can do. Opportunities will be provided to demonstrate an understanding of the mechanical principles and concepts of movement and to apply these concepts to sport, dance, gymnastics, and aquatics. Laboratory and Lecture. [0835-1]

2103. Fundamentals and Techniques of Football. (2). Fundamentals of football coaching with special emphasis on blocking, tackling, passing, punting, catching; principles of line and back-field work, playing the various positions; formation of plays, generalship, signal systems, and scouting; coaching problems; study of the rules. [0835-1]

2203. Fundamentals and Techniques of Basketball. (2). The theory and practice of basketball coaching, history of the game, and study of the rules; offensive and defensive systems; drills for the development of fundamental skills; training and conditioning of basketball squads. [0835-1]

2303. Fundamentals and Techniques of Track and Field. (2). The accepted forms of starting, hurdling, distance running, pole vaulting, discus and javelin throwing, and sprinting; physical conditions affecting speed, endurance, and fatigue; and selection and preparation of contestants for track and field events; managing and officiating games and meets; study of rules. [0835-1]

2403. Fundamentals and Techniques of Baseball and Softball. (2). The theory and practice of baseball coaching, with attention given to the coaching of the individual in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules. [0835-1]

2503. Coaching Methods in Swimming. (2). Coaching techniques and methods stressed. A course designed for those planning to coach swimming teams. PREREQUISITE: either lifesaving or W.S.I. qualifications. [0835-1]

2603. Sports Officiating. (3). A study of the rules, interpretations, and mechanics of officiating in football, basketball, baseball, etc. [0835-1]

2703. Water Safety Instructor. (2). Analysis, practice, and teaching of swimming and life saving skills and general water safety practice. PREREQUISITE: PHED 1722. [0835-1]

2803. Methods and Materials of Gymnastics. (2). A study of the materials, methods, and teaching techniques utilized in the instruction of gymnastics for women. Tumbling, re-bound tumbling,

floor exercise, balance beam, uneven parallel bars, and vaulting progression and skills are included along with the spotting techniques particular to each event. PREREQUISITE: PHED 1621. [0835-1]

2903. History and Principles of Physical Education. (2). Origins and nature of modern physical education as a developmental experience and medium of education. Scientific and philosophical principles of physical education are examined. [0835-1]

3103. Materials and Methods in Team Sports for Women. (3). Study of materials, methods, teaching, and coaching techniques of team sports. Laboratory experiences required. PREREQUISITES: PHED 1921 and 1923. [0835-1]

3203. Materials and Methods in Individual Sports. (3). Study of materials, methods, and teaching techniques of life-time sports. Laboratory experience required. [0835-1]

3303. Adapted Physical Education. (2). A theory course including lectures, demonstrations, and problems of the mechanics of physical deformities and their causes; abnormalities of the spine, feet, and other postural and functional conditions; and methods of class organization. Two lecture hours per week, plus laboratory periods to be arranged. [0835-1]

3403. Kinesiology. (3). Analysis of bodily movements in terms of the muscular forces operating on the bones. PREREQUISITES: BIOL 1631 and 1632. [0835-1]

3503. Materials and Methods of Dance. (3). Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 7 through 12. Laboratory experiences are required. PREREQUISITE: PHED 1813. [0835-1]

3703. Physiology of Exercise. (3). Primarily designed to establish a sound scientific basis of physiological principles on the various systems and organs of the body during muscular activity. Special emphasis is given in the principles of motor performance and training. Three lecture hours per week. PREREQUISITES: BIOL 1631 and 1632. [0835-1]

3803. Motor Learning and Teaching Methods in Physical Education. (3). Inquiry into perceptual motor and psychomotor behavior. Emphasis on variables conducive to skill acquisition and their implications for formulating teacher behavior. (Same as SCED 3331 and ELED 3803.) [0835-1]

3806. Physical Education for the Elementary School. (3). Materials and methods for physical education in grades 1 through 6, including philosophy, program planning, and practical experience gained through observing and directing play activities for children in the city schools. Laboratory periods to be arranged. [0835-1]

3816. Gymnastics in the Elementary and Middle School. (3). The study of the scope, content, and methodology of the gymnastics program. The student will learn how to teach the development of efficient and skilled use of the body in practical situations, when working alone and with others, on the floors and on apparatus. Laboratory experiences in the public school are included. PREREQUISITES: PHED 2003, 1621. [0835-1]

3826. Educational Dance in the Elementary and Middle School. (3). The study of the scope, content, and methodology of the rhythms and dance program. Emphasis is on the creative and aesthetic values therein, and the integration and correlation with the other arts in the school curriculum. Observations and laboratory experiences in the public schools are included. PREREQUISITES: PHED 2003, 1813. [0835-1]

3836. Games and Sport Activities for the Elementary and Middle School. (3). Designed to develop an understanding of the importance of a

variety of games, sports, and manipulative activities and to learn the skills, progressions and teaching methods appropriate for games and sports. Lecture-laboratory experiences will be included. PREREQUISITE: team sports activity course. [0835-1]

3846. Planning the Elementary and Middle School Programs. (3). The examination of current and traditional theory in curriculum development. Selection of content, program development and purchase and care of supplies and facilities. Observation and laboratory experiences will be included. PREREQUISITES: PHED 2003, 3816, 3826, 3836. [0835-1]

4103-20. Workshops in Physical Education. (1-6). Special study of selected phases of physical education through group study. This course is designed to provide indepth study in areas of interest to persons in physical education and related areas. (Satisfactory-Unsatisfactory, IP). [0835-1]

4103. Workshop in Program Planning. (1-3).

4204. Tests and Measurements in Health and Physical Education. (3). A study of the various tests in the field of health and physical education, including uses and interpretation of elementary statistical techniques. [0835-1]

4303. Problems in Physical Education. (1 to 3). Designed to afford opportunity for prospective or in-service school and other professional personnel to work individually or in groups on physical education factors in the solution of practical problems. PREREQUISITE: permission of the instructor. NOTE: Credit may be earned in only one of the following courses: PHED 4303, HLTH 4502. [0835-8]

4503. Organization and Administration of Health and Physical Education. (3). A study of administrative problems of health and physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of an intramural program. [0835-1]

M760 RECREATION (RECR)

2105. Introduction to Recreation. (4). Knowledge of the history and development of the recreation and park movements; an understanding of the nature of the recreation experience and its importance to the individual and the influence of leisure on society. Knowledge of private, public, voluntary, military, and commercial delivery systems for recreation and park services. [2103-1]

2205. Youth Service Organization. (2). An introduction to agencies servicing the leisure time needs of children and adults. Special emphasis on YMCA, YWCA, CYO, JCC, BSA, and GSA. Objectives, organization, program, and membership of principal national youth agencies. [2103-1]

3005. Camp Counseling. (2). This course is designed to orient the student with camping as practiced in America today: It acquaints the student with the problems faced by the camp counselor and furnishes background to aid the counselor in the performance of his multiple duties. [2103-1]

3105. Philosophy and Principles of Recreation. (2). A careful study of work leisure, play, and recreation with special attention being given to sound principles of recreation. PREREQUISITE: permission of instructor. [2103-1]

3205. Park and Recreation Facilities. (2). A study of planning, development, and maintenance of parks and recreation facilities. Includes inspection, comprehensive recreation surveys, and planning a layout. PREREQUISITE: permission of instructor. [2103-1]

3305. Program Planning in Recreation. (4). An understanding of the program fields in relation

to programming principles, planning objectives, structural organization, purposes and values of types of activities, programs for special groups, and program evaluation. PREREQUISITE: consent of instructor. [2103-1]

3405. Resource Management in Recreation. (4). A study of management, operation and maintenance of areas and facilities within field of recreation and parks. Includes the identification, acquisition, allocation, development and management of land and water resources. PREREQUISITE: consent of instructor. [2103-1]

3505. Camp Administration. (2). A study of the organization and administration of various types of camps and camping programs with particular emphasis on program planning, selection and training of staff. [2103-1]

3605. Outdoor Recreation. (2). The organization and administration of programs and activities in large park areas and forests. Outings, campfire programs, picnics, hiking, outdoor cookery, trailing, climbing, class and field activity. [2103-1]

3705. Outdoor Education. (2). The philosophy, modern trends, administration, program content, and methods of leadership in outdoor education activities. Opportunities for field trips and practice in leadership skills. [2103-1]

3805. Leadership Seminar in Recreation. (3). An understanding of the dynamics of leadership, the theories, principles, and practices of leadership, research in leadership, issues and problems of working with individuals and groups. PREREQUISITE: consent of instructor. [2103-1]

4105. Recreational Leadership. (3). Development of skills and techniques necessary for successful leadership in city, county and school recreation programs. [2103-1]

4205. Supervised Clinical Training in Recreational Therapy. (6). Instruction will be given in arts and crafts, radio, television programming, social activities, adapted sports, music, allied ward and clinic activities for patients with varied illnesses and disabilities. [2103-1]

4305. Field Problems in Recreation. (1-6). This course is designed to offer opportunities to study selected problems in the areas of recreation through individual and group field experience. PREREQUISITE: permission of instructor. [2103-8]

4405. Organization and Administration of Recreation. (3). An understanding of community organization, its philosophy, foundation and principles. An understanding of selected administrative practices that relate to successful recreational organization and administration. [2103-1]

4505. Recreation Surveys. (3). Observation of different types of recreational programs in action under professional leadership and supervision. Written analysis of programs and facilities in connection with course work. [2103-1]

4605. Internship in Recreation and Parks. (3-9). Professional field experience including all those situations in which the student has an opportunity to relate theory to practical experience. At least 280 clock hours in professional recreation and park programs. A progression of professional laboratory experiences in selected settings according to students particular area of emphasis. PREREQUISITE: consent of instructor. (Satisfactory-Unsatisfactory, IP). [2103-9]

4705. Workshop in Recreation and Parks. (1-6). Workshop planned especially for inservice education and continuing education for professional recreation and park personnel or in-depth specialization for majors in recreation and

parks. PREREQUISITE: consent of instructors. (Satisfactory-Unsatisfactory, IP). [2103-1]

Graduate Courses in Health, Physical Education, and Recreation: For details of the graduate program, see The Bulletin of The Graduate School.

HOME ECONOMICS

PROFESSOR MARQUITA IRLAND, *Chairman*
Room 404, Manning Hall

Requirements for the major and minor in home economics are listed on page 79.

A co-operative relationship exists between Memphis State University and the Merrill-Palmer Institute of Detroit, Michigan, whereby a second-semester junior or first-semester senior majoring in Home Economics-Child Development may enroll for one semester of study at Merrill-Palmer with the semester hours earned being transferred toward graduation at Memphis State.

A co-operative relationship also exists with the Fashion Institute of Technology in New York City, whereby Merchandising majors may enroll for one semester of study in New York with the semester hours earned being transferred toward graduation at Memphis State University.

M770 GENERAL HOME ECONOMICS (HMEC)

1100. Home Economics as a Profession. (1). The scope of Home Economics; educational preparation, professional orientation, and research pertinent to the field. PREREQUISITE: Home Economics major. [1301-1]

3010. Cooperative Occupational Education. (3). An introductory study of occupational education programs which use work experience coordinated with related in-school instruction to provide career preparation in marketing, office, industry, home economics, health and other fields of employment. (Same as DTED 3010). [1301-1]

3393. Occupational Education in Home Economics. (3). History, philosophy, and organization of Home Economics Occupational Education. Special emphasis will be given to instructional strategies and evaluation through classroom and on-site participation. PREREQUISITE: HMEC 3383. [1301-1]

3900. Home Economics Study Tour. (1-3). An opportunity to gain on-the-scene knowledge about specific academic areas of specialization within Home Economics. PREREQUISITE: Permission by instructor. May be repeated with 3 hours maximum credit. [1301-9]

4100. Senior Seminar in Home Economics. (1). The scope and direction of current research and trends in Home Economics; discussion of the roles of modern woman and an understanding of the professional ethics required of a home economist. PREREQUISITE: senior standing in Home Economics. [1301-1]

4200. Readings in Home Economics. (1-3). Designed to provide senior Home Economics majors an opportunity for in-depth reading or research in their area of specialization. PREREQUISITE: Senior Home Economics majors only. [1301-8]

4611. Principles and Philosophy of Vocational Education. (3). The history, philosophy, principles and objectives of vocational education; curriculum problems; contribution of vocational-technical education to general education; trends in vocational-technical education. (Same as DTED 4611). [0839-1]

CHILD DEVELOPMENT AND FAMILY RELATIONSHIPS (HMEC)

1101. Personal Development and Human Relations. (3). Individual and group adjustment, influences contributing to successful marriage and family life. [1301-1]

2101. Infant and Child Development. (3). A study of the affective, cognitive, and psychomotor development of the child from conception to eight years of age; guided observation of infants and young children. Three lecture hours, one laboratory hour per week. [1305-1]

4101. Nursery School Curriculum. (3). Application of child development principles to program planning; infancy through four years of age. Two lecture, two laboratory hours per week. [0823-1]

4201. Preparation or Marriage. (3). Courtship, marriage, and achievement of satisfaction in family life. PREREQUISITE: HMEC 1101. [1305-1]

4301. Nursery School Practicum. (3). Participation in and direction of various nursery school activities. One conference, five laboratory hours per week. PREREQUISITE: HMEC 2101. (Satisfactory-Unsatisfactory only). [0823-8]

4401. Nursery School Practicum. (3). For the student who has had or is taking Home Economics 4301 and desires additional experience. (Satisfactory-Unsatisfactory only). [0823-8]

FOODS, NUTRITION AND INSTITUTIONAL MANAGEMENT (HMEC)

2102. Food Selection and Preparation. (3). Principles underlying the selection and preparation of foods with an introduction to the planning and serving of meals. Open to freshmen. One lecture, four laboratory hours per week. [1306-1]

2202. Elementary Nutrition. (3). Nutritive value of food, factors influencing body food requirement and health. Open to freshmen. [1306-1]

3302. Meal Preparation and Table Service. (3). Nutrition fundamentals in individual and family dietaries, meal planning, marketing and table service for various occasions. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 2102. [1306-1]

3602. Institutional Management and Equipment. (3). Observation and practice in handling problems of organization and management of quantity food service. (Enrollment must parallel that in HMEC 4602). [1307-1]

3702. Catering. (3). Special food preparation and service for parties, dinners, and teas. Historical background of sectional foods in the United States with laboratory preparation. Six lecture and laboratory hours per week. PREREQUISITES: HMEC 4502 and 3602. [1306-1]

3802. Food Production (Practicum). (3). Personnel management, cost control, and quality control in specific organizations. Experience in approved food services. One lecture, four laboratory hours per week. PREREQUISITES: HMEC 4502 and 3602. (Satisfactory-Unsatisfactory only). [1306-8]

3902. Advanced Food Production (Practicum). (3). Special problems in quantity food production, organization, and management of institutional food service. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 3802. (Satisfactory-Unsatisfactory only). [1306-8]

4102. Diet Therapy. (3). Dietary problems applicable to the prevention and treatment of disease in which therapeutic diets are of major importance. PREREQUISITE: HMEC 2202. [1306-1]

4402. Advanced Nutrition. (3). Fundamental principles of nutrition and their application in selection and planning of adequate diets for individuals and families. One lecture, two laboratory hours per week. PREREQUISITE: HMEC 2202. [1306-1]

4502. Quantity Cookery and Purchasing. (3). Practical problems in preparing and serving foods for large groups. Use of standardized recipes, calculation of food costs, and use of institution equipment. PREREQUISITE: HMEC

2202. (Enrollment must parallel that in HMEC 3602). [1306-1]

4602. Community Nutrition I. (3). Nutritional problems and practices of various ethnic, age and socio-economic groups. A study of the community and agencies concerned with meeting these needs. PREREQUISITE: HMEC 2202 or permission of the instructor. [1306-1]

4702. Practicum in Community Nutrition. (3). Observation and participation in nutrition education programs of local and state agencies. PREREQUISITE: HMEC 4602 or permission of instructor. [1306-8]

HOME MANAGEMENT (HMEC)

4103. Family Economics. (3). Management of family resources as they relate to satisfying home and family life. Includes problems in consumer goods and services. [1305-1]

4203. Housing and Equipment. (3). A study of housing as it relates to conditions of family living. Principles underlying the construction, use, and care of household equipment. *Two lecture, two laboratory hours per week.* [1305-1]

4503. Home Management Laboratory. (3). Practical application of the theories of decision-making and group dynamics involved in the management of the resources of a home. PREREQUISITE: HMEC 4103. [1304-1]

HOUSING AND RELATED ARTS (HMEC)

1104. Art in Everyday Life. (3). A study of the elements of art and the principles of design as they relate to the practical aesthetics of living. [1301-1]

3104. Trends in Residential Furnishings. (3). An analysis of the major trends and influences on contemporary residential furnishings as these affect home furnishings merchandising. PREREQUISITE: HMEC 1104. [1302-1]

3704. Socio-Economic Aspects of Housing/Government and Housing. (3). Analysis of the family housing needs and present social and economic conditions affecting housing, building processes, furnishings, and the role of government in housing. PREREQUISITE: HMEC 1104. [1399-1]

4104. Home Furnishings I. (3). Principles of design and color theory applied to the selection and arrangement of the house and its furnishings. *Two lecture, two laboratory hours per week.* PREREQUISITE: HMEC 1104. [1302-1]

4204. Home Furnishings II. (3). Problems in planning, coordinating, and purchasing of home furnishings. *One lecture, three laboratory hours per week.* PREREQUISITE: HMEC 4104. [1302-1]

4604. Principles of Home Furnishings Marketing. (3). Patterns of production and distribution in the home furnishings industry, the market area and in merchandising techniques. Student may not enroll in more than a total of 12 semester hours during the Professional Semester. PREREQUISITE: MKTG 3320. *COREQUISITE: HMEC 4804. [1304-1]

4804. Home Furnishings Merchandising Practicum.* (6). Eight weeks of full-time work experience in Home Furnishings Merchandising in approved business establishments. Students may not be enrolled for more than a total of 12 semester hours during the professional semester. PREREQUISITE: MKTG 3320. *COREQUISITE: HMEC 4604. (Satisfactory-Unsatisfactory only). [1302-8]

TEXTILES AND CLOTHING (HMEC)

1105. Clothing Selection and Construction. (3). Standards in selecting and purchasing; construction of cotton garments to meet individual needs. *One lecture, four laboratory hours per week.* [1303-1]

2205. Clothing Construction. (3). Fundamental principles of clothing construction, fitting and finishing garments to develop techniques in handling wool, silk, and synthetic fabrics. *One lecture, four laboratory hours per week.* PREREQUISITE: HMEC 1105. [1303-1]

3305. Textiles. (3). A study of textile fibers used for clothing and house furnishing. *Two lecture, two laboratory hours per week.* [1303-1]

3405. Consumer Problems in Clothing. (3). A course in clothing selection and buying for men and women with emphasis on individual needs and economic problems involved. [1303-1]

3605. Draping Design. (3). Dress design and construction developed through the media of draping techniques. PREREQUISITES: HMEC 1105. and 2205. [1303-1]

3700. Fashion and Home Furnishings Merchandising Seminar.* (3). A concentrated study of factors influencing fashion and home furnishings merchandising designed to provide guidelines for the professional semester taken by all merchandising majors. *COREQUISITE: Fashion Major—HMEC 3705, 4705; Home Furnishings Major—HMEC 4604, 4804. PREREQUISITE: All major subject matter courses must be completed before the professional semester. [1303-1]

3705. Fashion Merchandising.* (3). An analysis of the fashion buying function in the retail store involving an understanding of the function of fashion in today's world, the fashion industry, and careers in fashion. PREREQUISITE: MKTG 3320. *COREQUISITES: HMEC 3700 and 4705. [1303-1]

3805. Principles of Fashion Design. (3). A study of forces influencing contemporary fashion, and practical application of techniques of clothing design. *One lecture, four laboratory hours per week.* PREREQUISITE: HMEC 3605. [1009-1]

4305. Trade Construction of Clothing. (3). This course is concerned with clothing construction based upon sound practical adapted trade methods and techniques, in logical sequence, in the construction of most elementary garments. PREREQUISITE: HMEC 2205. [1303-1]

4315. Internship in Clothing Services. (6). This course is designed to instruct teachers in the areas of Occupational Clothing Services. The main concern is based on preparing the individual for gainful employment in occupations utilizing knowledge and skills in the clothing area. PREREQUISITE: All Occupational major subject matter courses must be completed previous to internship. [1303-8]

4505. Tailoring. (3). Selection and construction of tailored wool garments, using various tailoring techniques. PREREQUISITES: HMEC 1105 and 2205. [1303-1]

4705. Fashion Marketing Practicum.* (6). Eight (8) weeks of full-time work experience in Fashion Merchandising in approved business establishments. Student may not be enrolled for more than a total of 12 semester hours during the professional semester. *COREQUISITES: HMEC 3700, 3705. (Satisfactory-Unsatisfactory only). [1303-8]

LIBRARY SERVICE

ASSOCIATE PROFESSOR
EVELYN GEER CLEMENT, *Chairman*
Room 201, John Willard Brister Library

M780 LIBRARY SERVICE (LIBS)

4111. Books and Related Library Materials for Children. (3). Primarily a reading course based on materials suitable for elementary school children; leisure-time interests and curricular needs; criteria for evaluating books and related materials such as magazines, photograph records, radio programs, and films; aids used in

their selection; types of literary and informational books, authors, illustrators, and publishers; story-telling and other devices for encouraging reading. [1601-1]

4121. Books and Related Library Materials for Young People and Adults. (3). This course is presented in the same manner as Library Service 4111, but is adapted to materials on the junior and senior high school levels; attention is also given to adult books to enable librarians to work more effectively with faculty and community groups. [1601-1]

4131. Introduction to Bibliography. (3). An introduction to the theory and purpose of bibliography as a form of access to information, with emphasis on general reference sources. Introduces principles, practices, and methods of reference service. Sets the foundation for advanced bibliography courses by developing recognition of types and characteristics as well as representative reference tools. [1601-1]

4232. Cataloging and Classification. (3). Introduction to the principles and techniques of the cataloging and classification of books and other library materials. [1601-1]

4331. School Library Administration. (3). The place of the library in the instructional and guidance program of the school and the philosophy and purposes of libraries and librarianship, including such problems as standards and evaluation, public relations and publicity, support, housing and equipment, training of assistants, and library-study hall relationships; field trips to different types of libraries. [1601-1]

4401. Foundations of Librarianship. (3). An introduction to librarianship as a profession and the library as an institution in the cultural and political setting. The influence of social issues, societal needs, professional organizations, and federal legislation on the goals, ethics, organization, programs, and problems of libraries and librarians. [1601-1]

Graduate courses in Library Service: For details of the graduate program, see The Bulletin of The Graduate School.

SPECIAL EDUCATION AND REHABILITATION

PROFESSOR WILSON DIETRICH, *Chairman*
Room 101A, The Special Education Building

The Department of Special Education and Rehabilitation offers a major and minor in Special Education and a major in Rehabilitation Education; requirements are listed on page 80.

Honors Program in Special Education and Rehabilitation

I. Criteria for Admission

Upon completion of thirty semester hours, a student may obtain application forms from the department and file for acceptance into the Special Education and Rehabilitation Honors Program. The credentials of each applicant will be reviewed by the Honors Committee (to be determined by the department chairman), and will be evaluated for the following minimum requirements.

- An overall GPA of 3.25
- A GPA 3.5 in the major (SPER)
- Two letters of reference from faculty (forms to be provided)
- At least forty hours of service to exceptional persons, paid or as a volunteer, and a letter of support from the supervisor(s) where the services were given.

Each applicant will be notified in writing of the Honors Committee's decision.

II. Criteria for Retention

Once the student has been accepted into the SPER Honors Program, the following standards must be maintained.

- A. An overall GPA of 3.25
- B. A GPA of 3.5 in the major (SPER)
- C. A minimum grade of B in each honors course attempted

The student's progress in the Honors Program will be evaluated at the end of each semester by his assigned advisor. If at any time he does not satisfy each of the above standards, he will not be permitted to enroll in honors courses for the following semester.

- (1) If at the time of the next posting of his grades the honors student's GPA (overall and major) does not meet the specified minimum, he will no longer be considered an honors participant. In such cases, applications for readmission will be considered by the Honors Committee on an individual basis.
- (2) If the honors student receives a grade of C, D or F in an honors course, he must re-enroll in the course and earn a grade of B or better in order to continue in the honors program.

III. Criteria for Graduation with Honors in Special Education and Rehabilitation

- 1. Completion of at least (6) hours of lower division, honors courses with a minimum grade of B in each. Three (3) of these six (6) will be met by completing the honors section of Introduction to Exceptional Children—SPER 2000 (3).
- 2. Completion of twelve (12) hours of Special Education and Rehabilitation honors courses (specified below) with a minimum grade of B in each.
 - a. Introduction to Disabling Conditions and Their Helping Professions—SPER 3901 (3)
 - b. Materials, Methods and Curriculum in Special Education and Rehabilitation—SPER 3512 (3), or 3513 (3), or 4904 (3)
 - c. CHOOSE ONE: Introduction to the Education of Children with Emotional Problems—SPER 3201 (3), or Introduction to Children with Learning Disabilities—SPER 3401 (3), or Nature of Mental Retardation—SPER 3501 (3), or Programming for Trainable Mentally Retarded Children—SPER 3516 (3)
 - d. Independent Study in Special Education—SPER 3002 (3)
- 3. An overall GPA of 3.25 or better
- 4. A GPA of 3.5 in all courses required for the major in Special Education and Rehabilitation.

IV. Honors Courses Offered Within the Department

Whenever possible, the Special Education and Rehabilitation honors courses will be offered, as a separate honors section, at least once each academic year. Should an individual honors student need a specific honors course for graduation during a semester when it is not being offered as an honors course, he will be permitted to contract for the course for honors credit by obtaining permission of the chairman and the instructor.

V. Appeals

A student may appeal the decision of the Honors Committee on admission, suspension or readmission to the program by the following procedures:

- 1. Request for re-hearing by the Honors Committee

- 2. Request for hearing by the College Honors Council
- 3. Request for hearing by the University Honors Council
- 4. Request for hearing by the Vice-President for Academic Affairs

M790 SPECIAL EDUCATION (SPER)

2000. Introduction to Exceptional Children. (3). A survey course with an overview of the field of special education, including the historical perspective of the field. Emphasis is placed on the characteristics and education of children and youth in each area of exceptionality. [0808-1]

2000. Introduction to Exceptional Children (Honors). (3). Students who enroll in SPER 2000 by contract for honors credit will participate in an applied learning course, in addition to reading a basic text on exceptional children and taking written examinations on this basic information. One or both faculty will meet weekly in seminar, exploring areas of special education with students, bringing in guests for special expertise, etc. In addition, throughout the semester on a rotating basis, each student will be placed in a special education setting for observation of and participation in the program including direct contact with children, their teachers and ancillary personnel. The students will periodically move to a new site until each student has visited each site. Examples of such special education programs might be Child Development Center, Sequoya, Colonial (resource), Shine School, and Center for Visually Impaired. The students will be supervised at their sites by the faculty, and a portion of their grade in the course will be derived from their efforts at the educational settings. [0808-1]

3002. Independent Study in Special Education. (3). A course designed to allow the student the opportunity of self-directed study and/or research under supervision. PREREQUISITE: consent of department. [0808-8]

3003. Observation and Participation in Special Education. (1-3). Overview of public school, institutional, private school facilities available in Special Education. Short term observations and participation with opportunity for evaluation. PREREQUISITE: consent of department. [0808-1]

3004. Special Problems in Instructing the Handicapped. (1-3). Individual investigation into areas of Special Education and Rehabilitation curriculum and instruction. PREREQUISITE: Experience as a teacher or satisfactory evidence of being qualified to benefit from such a course. [0819-8]

3012. Methods, Materials and Curriculum of the Exceptional Learner I. (3). Students will become acquainted with the curriculum, methods and instructional materials which are applicable to the special educational needs of the mentally retarded at the primary, intermediate and secondary levels. The students will develop skills which will enable them to effectively plan and implement teaching strategies with exceptional individuals. PREREQUISITE: SPER 2000; COREQUISITES: SPER 3013 and 3014. [0808-1]

3013. Practical Application of Special Education Methods and Materials I. (1-3). Students will have the opportunity of planning and implementing special education methods and materials with exceptional children. PREREQUISITE: SPER 2000; COREQUISITES: SPER 3012 and 3014. [0808-5]

3014. Assessment of Exceptional Persons. (3). Survey of tests and measurements used with exceptional persons, including psychological, social, and other assessment instruments used in the educational and vocational evaluation of

exceptional persons. PREREQUISITE: SPER 2000; COREQUISITES: SPER 3012 and 3013. [0808-1]

3201. Introduction to the Education of Children with Emotional Problems. (3). A course designed to explore historical developments and current practices in the identification and treatment of children with emotional problems. Emphasis is placed upon the educational phase of treatment, including the characteristics of children, role of the teacher, and curricula planning. PREREQUISITE: SPER 2000; COREQUISITE: SPER 3003 (1 semester hour). [0816-1]

3301. Introduction to Education of the Hearing Impaired. (3). An overview of identification, assessment, and treatment of hearing impaired students. Course content will include examination of traditional and contemporary models for service delivery. Content will be supplemented by on-site programs for the hearing impaired. [0812-1]

3311. Curricular Adaptations for the Hearing Impaired. (3). Presentation of techniques for developing and adapting curriculum to the specific needs of the impaired child in a regular class. [0812-1]

3401. Introduction to Children with Learning Disabilities. (3). An introductory course, including an overview of minimal brain dysfunction, theories concerning diagnosis, management and education of children with resulting learning disabilities, and the relationship of these concepts to academic failure. PREREQUISITE: SPER 2000. COREQUISITE: SPER 3003 (1 semester hour). [0818-1]

3501. Nature of Mental Retardation. (3). To include etiology, definitions, and a comprehensive knowledge of the nature and needs of the mentally retarded. The multiplicity of implications of mental retardation as they relate to impairment in growth, maturation, and learning, and the impact of these deficits on the individual, on his family, and on society. PREREQUISITE: SPER 2000; COREQUISITE: SPER 3000 (1 semester hour). [0810-1]

3516. Programming for Trainable Mentally Retarded Children. (3). (formerly 5516) This course covers diagnosis, classification, development of teaching materials, and techniques as well as working with community organizations in relation to public school, private school, community center or instructional program for trainable mentally retarded children. PREREQUISITES: SPER 2000, 3012, 3013, 3014. [0810-1]

3901. Introduction to Disabling Conditions and Their Helping Professions. (3). An introductory course to acquaint students with the various physical, mental and socially disabling conditions and their effect on the lives of people. This course also explores the roles of the various helping professions in the rehabilitation of such conditions. [1222-1]

3911. Introduction to Vocational Evaluation of the Disabled/Handicapped Citizen. (3). This course includes history, philosophy, theoretical bases and present status of the field of vocational evaluation. Survey of the vocational evaluation process, principles, techniques and procedures, innovative methodologies and future trends in vocational evaluation are explored. [1222-1]

3912. Introduction to Work Adjustment of the Disabled/Handicapped Citizen. (3). This course is an introduction to the treatment process of work adjustment from a historical and philosophical perspective. Emphasis will be placed on the adjustment of the handicapped individual to work, personal, and social situations and techniques used to enhance this adjustment process. [1222-1]

4002. Trends and Issues in Special Education. (3). An analysis of current trends and issues in the field of special education. The course will emphasize dynamic concepts such as mainstreaming, the law and the handicapped citizen, working with parents of the handicapped and knowledge of available services for the handicapped and their family. [0808-1]

4012. Methods, Materials and Curriculum of the Exceptional Learner II. (3). This course is a continuation and expansion of SPER 3012. PREREQUISITE: consent of instructor. COREQUISITE: SPER 4013. [0808-1]

4013. Practical Application of Special Education Methods and Materials II. (3). Students will have the opportunity of implementing diagnostic and remediation techniques with a limited number of exceptional children who have a serious learning handicapping condition in a public school setting under the supervision of a trained Special Education teacher. PREREQUISITE: consent of instructor. COREQUISITE: SPER 4012. [0808-5]

4041. Supervised Clinical Training in Educational Therapy. (3). Practical application of educational activities in the rehabilitation of patients with neuropsychiatric orthopedic, neurological cardiac, pulmonary, and other general disabilities. [1222-8]

***4541. Student Teaching in Special Education. (3-9).** Orientation, observation, and teaching with handicapped children. (Satisfactory-Unsatisfactory). [0808-5]

***4542. Student Teaching in Special Education. (3-6).** This course is offered for the student who has completed SPER 4541 and for whom additional teaching experience in special education is considered desirable. (Satisfactory-Unsatisfactory). [0808-5]

4801-20. Workshops in Special Education and Rehabilitation. (1-9).

NOTE: Not more than 9 semester hours of credit can be applied toward a degree.

A study into Special Education and Rehabilitation Programming for handicapped children. The courses are designed to aid both in-service and prospective teachers in developing skills in

diagnosis, evaluation, classroom and individualized studies. Attention is given to methodologies, instructional materials and behavioral management. (Satisfactory-Unsatisfactory, only).

4801. Workshop — Methods in Instruction. (1-3). [0808-1]

4802. Workshop in Education of the Deaf. (1-3). [0812-1]

4803. Workshop in Curriculum Adaptation for the Deaf. (1-3). [0812-1]

4804. Workshop in Tutoring Exceptional Children. (1-3). [0808-1]

4902. Social and Psychological Adjustments to Disabling Conditions. (3). A course designed to explore in depth the social and psychological ramifications of disabling conditions. Theories dealing with the adjustment to physical disabilities will be explored and extrapolated to mental and social disabilities. [1222-1]

4903. Helping and Human Relationships with Disabled Persons. (3). This course will focus on the helping process, examining theories of human behavior and the helping process as it relates to working with disabled persons. The theories of Combs, Carkhuff and others will be examined in this course. [1222-1]

4904. Instructional Methods in Rehabilitation. (3). This course will encompass the areas of vocational evaluation, vocational exploration and teaching job skills. It is designed to give the student a theoretical background in rehabilitation procedures as well as an opportunity for practical application of these theoretical constructs. [1222-1]

4905. Utilizing Client Information in Rehabilitation. (3). A course to acquaint students with the use of information regarding clients' potential in rehabilitation. The uses of biographical, psychological, medical and job information for case planning will be stressed. Teaching mode will be lecture and simulating experiences. [1222-1]

4913. Diagnostic Vocational Evaluation for the Disabled/Handicapped Citizen. (3). This course deals with an in-depth study of the processes, principles and techniques used to diagnose general assets and limitations of the handicapped/disabled individual. Special emphasis is placed on the use of biographical or referral data, the

evaluation interview and the rationale underlying the selection and use of psychological tests. PREREQUISITE: consent of instructor.

[1222-1]

4914. Prognostic Vocational Evaluation for the Disabled/Handicapped Citizen. (3). This course is a detailed study of the processes, principles and techniques used to determine and predict work behavior and vocational potential of the handicapped/disabled individual. The course explores the selection and use of appropriate occupational exploration programs, work samples, situational tasks, simulated work experience and on the job tryouts. PREREQUISITES: SPER 4913 or consent of the instructor.

[1222-1]

4915. Prescriptive Vocational Evaluation for the Disabled/Handicapped Citizen. (3). This course emphasizes techniques of synthesizing the information gained through the two previous courses in the series, Diagnostic and Prognostic Vocational Evaluation. The focus is on the interpretation of data through the formal staff conference, vocational counseling and follow-up procedures. Major emphasis is placed on writing concise vocational evaluation reports. PREREQUISITE: SPER 4913 and SPER 4914 or consent of the instructor. [1222-1]

4916. Work Sample Development for the Disabled/Handicapped Citizen. (3). This course teaches skills needed in the development, standardization and validation of work samples. The student will learn techniques of job analysis and community surveys and complete a work sample based on a local labor market survey. PREREQUISITE: consent of the instructor.

[1222-1]

4941. Practicum in Rehabilitation. (3-6). This course will provide the student with practical experiences in various rehabilitation settings. The student will be provided a first hand experience of the overall functions of such a rehabilitation setting. PREREQUISITE: SPER 3901 or consent of instructor. [1222-8]

Graduate Courses in Special Education: see The Bulletin of The Graduate School.

**For detailed information concerning the requirements for admission to the student teaching program, see page 71.*

THE HERFF COLLEGE OF ENGINEERING

ROGER E. NOLTE, *Dean*

Room 201D, Engineering Administration Building

Q840 ENGINEERING CORE COURSES (ENGR)

1001. Introduction to Engineering. (1). History and nature of engineering as a profession, including industrial practices, academic programs, and career planning. The use of logic as applied to engineering problems and systems. *One lecture hour per week.* PREREQUISITE: freshmen having engineering inclinations.

[0901-1]

1011. Engineering Computer Programming. (2). Introduction to the role of the digital computer in engineering systems; applications of computer systems to analysis and design; introduction to computer programming languages. *One lecture, three laboratory hours per week.* [0901-1]

1021. Engineering Graphics. (2). Role of graphical communication in engineering practice; sketching and drafting techniques used in design, elements of descriptive geometry. *One lecture, three laboratory hours per week.*

[0901-1]

CIVIL ENGINEERING

PROFESSOR THOMAS S. FRY, *Chairman*

Room 104A, Engineering Building

Requirements for the B.S. in Civil Engineering are listed on page 82.

Q800 CIVIL ENGINEERING (CIVL)

2131. Statics. (3). Analysis of two and three dimensional systems; centroids and moment of inertia; friction. *Three lecture hours per week.* COREQUISITE: PHYS 2511. [0908-1]

3101. Computer Methods in Civil Engineering. (3). Algorithmic approach to digital computation; iterative and logical methods; analog computations for distributive systems; civil engineering applications. *Three lecture hours per week.* PREREQUISITES: ENGR 1011; MATH 3391. [0701-3]

3111. Field Measurements. (3). Principles of field measurements; earthwork calculations; alignment of curves; error analysis. *Two lecture, three laboratory hours per week.* PREREQUISITE: ENGR 1011; MATH 2321. [0901-1]

3121. Structural Analysis I. (3). Statically determinate structural systems; analytical and numerical solutions; influence lines, moving loads. *Three lecture hours per week.* PREREQUISITE: CIVL 2131. [0908-3]

3122. Structural Analysis II. (3). Analytical and numerical solutions for statically indeterminate structures. *Three lecture hours per week.* PREREQUISITE: CIVL 3121. [0908-3]

3131. Design of Steel Structures. (3). Current design concepts for structural steel members and their connections; introduction to plastic design. *Three lecture hours per week.* PREREQUISITE: CIVL 3121, MECH 3322. [0908-3]

3135. Properties of Concrete. (3). Study of aggregates, aggregate benefaction, properties of portland cement, mix design, testing of plain concrete, quality control of concrete and statistical methods for evaluating concrete test data. *Two lecture, three laboratory hours per week.* PREREQUISITE: MECH 3322. [0908-1]

3136. Bituminous Materials Engineering. (3). Source, manufacture, processing, types, constituents, tests, chemical behavior, specifications and uses of bituminous materials and aggregates in pavement mix design and construction. *Two lecture, three laboratory hours per week.* PREREQUISITE: MECH 3322. [0908-1]

3141. Engineering Economics. (3). Application of economics and decision theory to engineering alternatives in planning, developing, constructing, and managing engineering projects. *Three lecture hours per week.* PREREQUISITE: ECON 2110. [0901-1]

4131. Intermediate Steel Design. (3). Design of plate girders and composite beams; moment connections; building design. *Three lecture hours per week.* PREREQUISITE: CIVL 3131.

[0908-1]

4135. Reinforced Concrete Design. (3). Straight-line and ultimate strength analysis for reinforced concrete members; floor systems; introduction to prestressed concrete. *Three lecture hours per week.* PREREQUISITE: CIVL 3122.

[0908-1]

4136. Intermediate Reinforced Concrete Design. (3). Design of two-way slab systems; integrated building design using current code provisions. *Three lecture hours per week.* PREREQUISITES: CIVL 4121, 4135. [0908-1]

4141. Hydrology and Water Supply. (3). Hydrology of ground and surface water; water quality and treatment; hydraulic networks; water supply and distribution systems. *Three lecture hours per week.* PREREQUISITE: MECH 3331. [0908-1]

4142. Unit Operations and Processes in Environmental Engineering. (3). Operations and processes in water and waste treatment; including sedimentation, coagulation, neutralization, filtration, adsorption, biological treatments, softening and other techniques. *Three lecture hours per week.* [0922-1]

4145. Waste Treatment. (3). Collection of wastes; physical, chemical, and biological treatment of wastes; solid waste control. *Three lecture hours per week.* PREREQUISITE: senior standing.

[0908-1]

4146. Environmental Engineering Analysis. (3). Quantitative measurements and bench scale pilot plant studies in the fields of water, sewage, industrial waste and stream pollution, interpretation and application of test data. *One lecture, six laboratory hours per week.* PREREQUISITE: CIVL 4145, or consent of instructor. [0922-1]

4147. Environmental Engineering Design. (3). The design of a water and waste treatment plant. The student's background as well as accepted design criteria will be utilized. *Three lecture hours per week.* PREREQUISITE: senior standing or consent of instructor. [0922-1]

4151. Soil Mechanics. (4). Physico-chemical basis of soil structure; identification and classification; permeability, compressibility, and shear strength. *Three lecture, three laboratory hours per week.* PREREQUISITES: MECH 3322, 3331.

[0921-1]

4152. Applied Soil Mechanics. (3). Applications of theory to the design of building foundations, retaining walls, and hydraulic structures. *Three lecture hours per week.* PREREQUISITE: CIVL 4151. [0921-1]

4161. Transportation Systems Engineering. (3). Development and function of transportation systems; operational control and characteristics; system coordination; traffic flow and patterns. *Three lecture hours per week.* PREREQUISITE: senior standing in Civil Engineering. [0908-3]

4162. Traffic Engineering. (3). The study of traits and behavior patterns of road users and their vehicles. Includes traffic signs and signals, pavement markings, hazard delineation, capacity, accidents and parking analysis. PREREQUISITE: approval of instructor. [0908-3]

4164. Advanced Surveying. (3). Elements of route location and design with emphasis on horizontal and vertical alignment, curvature, gradient and sight distance. *Two lecture, three laboratory hours per week.* PREREQUISITE: CIVL 3111. [0908-1]

4191. Civil Engineering Projects. (1-3). Independent investigation of a Civil Engineering problem in consultation with instructor. PREREQUISITE: consent of instructor. [0908-8]

ELECTRICAL ENGINEERING

PROFESSOR THOMAS DEWEY SHOCKLEY, JR.,
Chairman

Room 206B, Engineering Building

Requirements for the B.S. in Electrical Engineering are listed on page 83.

Q820 ELECTRICAL ENGINEERING (ELEC)

2201. Circuit Analysis I. (3). Fundamental properties of electrical circuits; basic concepts and circuit elements; analysis methods and network theorems; sinusoidal steady-state response; introduction to transients. *Three lecture hours per week.* PREREQUISITE: MATH 2322. [0909-1]

2203. Circuit Analysis Laboratory. (1). Introduction to the utilization of meters, oscilloscopes, oscillators, power supplies and related test equipment in the experimental verification of basic electric circuit theory. *Three laboratory hours per week.* COREQUISITE: ELEC 2201.

[0909-1]

3201. Circuit Analysis II. (4). Continuation of ELEC 2201. Resonance, impedance and admittance functions, network theorems and analysis, the complex frequency plane, polyphase circuits and magnetic coupling. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 2201. [0909-1]

3202. Transform Methods in Network Analysis. (3). Introduction to transform theory; application of Fourier, Laplace and Z-transforms to the solution of network problems. *Three lecture hours per week.* PREREQUISITE: ELEC 2201.

[0909-1]

3211. Electronics I. (3). A study of active vacuum, gas and solid state devices as elements of electric circuits; linear models and linear operation of these devices are stressed. *Three lecture hours per week.* PREREQUISITE: ELEC 2201 and ELEC 2203. [0909-1]

3212. Electronics II. (4). Power amplifiers; feedback amplifiers; oscillators; modulation and detection; rectifiers. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 3211.

[0909-1]

3213. Electronic I Laboratory. (1). Designed to accompany Electrical Engineering 3211. Emphasis is placed on laboratory techniques in the performance of basic electronic experiments. *Three laboratory hours per week.* COREQUISITE: ELEC 3211. [0909-1]

3220. Engineering Computer Systems. (3). Basic structure and organization of digital computers and associated peripheral devices. Digital representation of data, basic instruction sets, instruction execution and addressing techniques. Basic program structure in machine language. Subroutine and utility programs, systems programs, and other software. Formulation of assemblers, compilers, and interpreters that are oriented toward computer-controlled systems. *Three lecture hours per week.* PREREQUISITE: ENGR 1011. [0702-1]

3221. Matrix Computer Methods in Electrical Engineering. (3). Application of matrix theory to the solution of circuit problems. Introduction of the state space concept in circuit, electronics and controls problems. Introduction of matrix concepts in the solution of basic electromagnetic problems. *Three lecture hours per week.* PREREQUISITE: ELEC 3201. [0705-1]

3222. Introduction to Engineering Instrumentation. (4). Study of transducers for physical systems. Mechanical, temperature, acoustic, and biomedical transducers. Methods of processing and analyzing data. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 3212. [0909-1]

4201. Energy Conversion. (3). Energy conversion by electromechanical processes, energy relations in magnetic systems, mathematical modeling of magnetic systems, transformers and electrical machines. *Three lecture hours per week.* PREREQUISITE: ELEC 2201. [0909-1]

4202. Electrical Power Systems. (3). Investigation of problems associated with the transmission of electrical energy. Load-flow studies, and fault analysis by use of symmetrical components. *Three lecture hours per week.* PREREQUISITE: permission of instructor. [0909-1]

4203. Energy Conversion Laboratory. (1). Designed to accompany Electrical Engineering 4201. Fundamental properties associated with the testing and the utilization of direct current and of alternating current equipment such as motors, generators, alternators and transformers. *Three laboratory hours per week.* COREQUISITE: ELEC 4201. [0909-1]

4205. Continuous System Simulation. (4). Introduction to analog computers. Use of analog computers, hybrid computers, programming languages and simulation languages for the simulation of linear and nonlinear systems. *Three lecture hours, three laboratory hours per week.* PREREQUISITE: ELEC 3202. [0909-1]

4211. Electromagnetic Field Theory I. (3). Maxwell's equations, electrostatics, magnetostatics and time varying electromagnetic fields. *Three lecture hours per week.* PREREQUISITE: MATH 3391. [0909-1]

4212. Electromagnetic Theory II. (4). Continuation of ELEC 4211. Plane, cylindrical and spherical waves; high frequency transmission lines; introduction to microwave and antenna theory. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 4211. [0909-1]

4213. Antenna Theory and Design. (4). Continuation of 4212 with emphasis on the theory of operation and design of antennas. Determination of antenna radiation characteristics. Introduction to antenna array theory. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 4212. [0909-1]

4215. Introduction to Bio-Engineering. (3). Use of engineering concepts for modeling physiological phenomena. Introduction and use of piecewise linear functions for the characterization of system components such as the respiratory, sensory, circulatory and muscular subsystems. Introduction to computer processing of electrocardiograms, cybernetic actuators, and design of prosthetic devices. *Three lecture hours per week.* PREREQUISITE: senior standing and permission. [0905-1]

4216. Bio-Control Systems. (3). Introduction to neural networks. Use of classical feedback control theory for the study of homeostasis and biological control mechanisms. Use of electromagnetic field theory in electrocardiography and hemodynamics. PREREQUISITES: upper-division standing and permission. [0905-1]

4221. Pulse and Digital Circuits. (4). Timing, scanning, trigger and pulse circuits; astable,

bistable and monostable multivibrators; binary counting circuits. *Three lecture, three laboratory hours per week.* PREREQUISITE: ELEC 3212. [0909-1]

4222. Introduction to Logical Design and Switching Circuits. (3). Introduction to the analysis and design of logical switching circuits; logic, number systems, digital computer components. *Three lecture hours per week.* PREREQUISITE: ELEC 3211 or permission. [0702-1]

4230. Data Communication Systems. (3). A study of data communications in information and computing systems. Analog and digital means of transmitting and controlling information. Organization and requirements of data communication systems including modulation and demodulation, multiplexing, switching, error detection and correction. On and Off line, real and non-real time, and time sharing systems. *Three lecture hours per week.* PREREQUISITE: ELEC 3212 or permission. [0702-1]

4231. Communication Theory. (3). Frequency and time domain. Modulation, random signal theory; autocorrelation; basic information theory, noise, communication systems. *Three lecture hours per week.* PREREQUISITE: ELEC 3212. [0909-1]

4232. Discrete Signal Processing. (3). An introduction to deterministic and random discrete-time signal analysis. Topics include signal time averaging, digital filtering, spectral analysis, and detection and estimation of signals. Applications to computer processing of biomedical, seismic, and radar signals. PREREQUISITE: ELEC 3202. [0703-1]

4240. Introduction to Quantum Electronics. (3). Quantum concepts, Schrodinger equation, quantization of electromagnetic radiation. Laser theory and application. *Three lecture hours per week.* PREREQUISITE: senior standing. [0909-1]

4241. Physical Electronics. (3). Fundamental particles: Quantum concepts; statistics; crystal structure; thermal, dielectric, magnetic and optical properties of solids; solid state devices. *Three lecture hours per week.* PREREQUISITE: ELEC 3212. [0909-1]

4251. Control System Engineering. (4). General equations of physical linear systems and their transfer functions. Transient analysis and stability of servo systems. The Bode plot, Nichols chart, Nyquist plot, Routh-Hurwitz criterion, root locus methods, introduction to compensation techniques and systems in state space. *Three lecture, three laboratory hours per week.* PREREQUISITES: ELEC 3202, ELEC 4201. [0909-1]

4261. Introduction to Network Synthesis. (3). Synthesis of canonical LC, RL, RC, and RLC driving point impedances. Introduction to the synthesis and realization of lossy one and two port networks. *Three lecture hours per week.* PREREQUISITE: ELEC 3202. [0909-1]

4270. Introduction to Microprocessors. (3). LSI circuitry, microprocessor architecture, hardware and software, applications and system design using a Microprocessor Assembler. *Three lecture hours per week.* PREREQUISITE: ELEC 3220. [0701-1]

4991. Electrical Engineering Projects I. (1-3). Independent investigation of a problem selected in consultation with instructor; report required. PREREQUISITE: senior standing. [0909-8]

4992. Electrical Engineering Projects II. (1-3). Continuation of ELEC 4991. Design, construction and testing of project investigated in ELEC 4991; report required. PREREQUISITE: ELEC 4991. [0909-8]

5205. Hybrid Simulation Techniques. (3). Introduction to hybrid computer techniques, hardware and software. Hybrid computer solutions of field problems, parameter optimization and

optimal control system problems and man-machine systems. *Three lecture hours per week.* PREREQUISITE: ELEC 4205. [0909-1]

ENGINEERING TECHNOLOGY

PROFESSOR W. T. BROOKS, *Director*

Room 203, Technology Building

The requirements for the B.S. in Technology and B.S. in Engineering Technology begin on page 84.

ARCHITECTURAL TECHNOLOGY (TECH)

1555. History of Architecture. (3). A history of architecture covering the major trends in architecture from prehistoric times to the present. Special importance is given to the impact of technological and social changes on the prevailing architectural styles. [0925-1]

2555. Architectural Design I. (4). Fundamentals of architectural design; basic techniques of drafting, perspectives, presentation and working drawings. *Three lecture, three laboratory hours per week.* [0904-1]

3471. Structural Design I. (3). Fundamentals of structural design and analysis of steel and timber buildings and building components. PREREQUISITES: MATH 1321, TECH 3401. [0925-1]

3472. Structural Design II. (3). Fundamentals of structural design and analysis of concrete buildings and building components. PREREQUISITES: MATH 1321, TECH 3401. [0925-1]

3520. Architectural Design II. (4). A continuation of TECH 2555, Architectural Design I. Basic design concepts and methods as applied to building types; design, construction, and systems for units of contemporary architecture. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 2555, 3471. [0904-1]

3521. Architectural Model Making. (3). Continuation of TECH 2555, including pictorial representations, model building and furnishings design. PREREQUISITE: TECH 2555. [0925-1]

3531. Mechanical Equipment in Construction I. (3). Studies of electrical and thermal services for commercial and residential structures. PREREQUISITE: TECH 3520. [0925-1]

3532. Mechanical Equipment in Construction II. (3). Continuation of TECH 3531, with emphasis on the sanitary, water services, etc. for commercial and residential structures. PREREQUISITE: TECH 3531. [0925-1]

4515. Architectural Design III. (4). A continuation of TECH 3520, Architectural Design II. Design concepts and methods as related to mass horizontal and vertical architectural development. *Three lecture, three laboratory hours per week.* PREREQUISITES: TECH 3520, 3471, 3472. [0904-1]

4525. Building Codes and Regulations. (3). The study of building codes and other regulating agencies at the local, state and national level such as local and state fire and health regulations, the B.O.C.A. Building Code, The Occupational Safety and Health Act, National Fire Protection Association and others. [0925-1]

4530. Architectural Specifications and Contracts. (3). Examination of typical contract documents beginning with the agreement between the architect and owner and continuing through construction. Emphasis will be on the roles and responsibilities of each party. CSI format for specifications will also be covered including the proper organization, writing and utilization of a complete set of specifications. [0925-1]

O890

COMPUTER SYSTEMS TECHNOLOGY (TECH)

2251. Advanced Programming Techniques. (4). The purpose of this course is to broaden the student's knowledge of computer usage through

the study of modeling techniques applicable to engineering technology. Subprograms, tape input/output, random-access storage devices, complex arithmetic, and double precision operations are emphasized. *Three lecture, three laboratory hours per week.* PREREQUISITE: ENGR 1011. [0925-3]

3251. Data Structures. (4). Application of the high speed digital computer to the problems associated with the storage and retrieval of numeric and non-numeric data in engineering systems. Included are the representation and organization for storing of data, searching and sorting techniques, decision tables, and file maintenance techniques. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 2251 or equivalent. [0925-3]

3271. Computer Simulation Technology. (4). A study of languages designed for simulation of physical systems. Included are general purpose languages, as well as languages designed for electronics and construction technology. Laboratory will consist of the application of analog, digital, and hybrid computers to simulate large scale systems. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 2251 or equivalent. [0701-1]

4251. Assembly Language Programming. (4). An investigation of a particular mini-computer from the programmer's view point. Topics include machine representation of data, instruction formats, machine operation and addressing techniques, input/output, and interrupts. Applications will include the use of minicomputers for numerical control and in sensor based systems. *Three lecture, three laboratory hours per week.* PREREQUISITES: TECH 2251, 2411. [0701-3]

4261. Computer Applications in Engineering. (4). Applications of problem oriented and procedure oriented languages to problems from selected areas of Engineering Technology. Topics include data collecting, modeling techniques, constraints, program development and validation. Areas of emphasis may vary to meet student needs. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 2251 or permission of the instructor. [0925-1]

4271. Computer Techniques. (4). Advanced computer techniques in industry. Topics include APT programming for NC machine tools, application of the computer to solve PERT networks, and applications in production planning and control. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 2251, COREQUISITE: TECH 3422. [0702-1]

Q890 CONSTRUCTION TECHNOLOGY (TECH)

1451. Introduction to Surveying. (3). Surveying practices, calculations, and use of topographical conventions. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1411 and MATH 1212. [0925-1]

2451. Construction Surveying. (3). Study of construction layout and site locations. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1451. [0925-1]

3387. Construction Safety. (3). Study of hazards and their control as related to the construction industry. [0925-1]

3412. Soil Technology in Construction. (3). Soil Technology as applied to the construction field. The fundamental properties of soils with application to foundations, highways, retaining walls and slope stability. The relationship between soil characteristics and geologic formations. *Two lecture, three laboratory hours per week.* PREREQUISITE: junior standing or approval of instructor. [0925-1]

3414. Construction Administration. (3). Ethical practice, social responsibility, licensing, codes, and public regulation of contracting, specification writing and interpretation, functions of the

architect-engineer and owner, construction contracts, bonding, insurance, indemnification, labor agreements and jurisdictional procedures, joint venture and subcontract relationship will all be included in the course. PREREQUISITE: junior standing. [0925-1]

3451. Route Surveying. (3). Study of surveying practices as applied to streets, roads, and highways. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2451. [0925-1]

3491. Estimating. (3). Study and practice of specifications, bidding procedures, and estimating. PREREQUISITE: TECH 2555. [0925-1]

3591. Land Surveying. (3). The historical background of property surveys. Writing adequate land descriptions. Interpretation of old descriptions. Excess and deficiency. Riparian rights. Field practice. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 3451. [0925-1]

4510. Construction Planning and Scheduling. (3). Principles of planning, scheduling, organizing, and controlling construction projects. Studies in the critical path method (CPM) and PERT, with resource leveling and financial scheduling. Computer applications in CPM and PERT will be emphasized. *Two lecture, three laboratory hours per week.* PREREQUISITE: senior standing. [0925-1]

4520. Construction Methods and Equipment. (3). Theory and practice of construction operations, equipment utilization, construction methods, analysis of costs, crew and equipment. PREREQUISITE: senior standing. [0925-1]

4522. Construction Logistics. (3). Theory and practice of construction project bidding using statistical concepts of probability and computer applications. Office procedures, job and cost control, and the analysis of starting and completing construction contracts will be studied. PREREQUISITE: senior standing. [0925-1]

Q890 ELECTRONICS TECHNOLOGY (TECH)

1801. Instrumentation for Medical Sciences I. (3). Principles of electricity, electronics and devices applicable to medical instrumentation. *Two lecture, three laboratory hours per week.* [0925-1]

1802. Instrumentation for Medical Sciences II. (3). Continuation of Instrumentation for Medical Sciences I, with emphasis on specific instrumentation for such processes as potentiometry, spectrophotometry, photometry, chromatography and etc. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1801. [0925-1]

1811. Electronics Technology I. (3). Direct Current fundamentals, circuit and network theorems with laboratory emphasis on basic electrical measurements and the proper use of instruments. *Two lecture, three laboratory hours per week.* PREREQUISITE: MATH 1212. [0909-1]

1821. Electronics Technology II. (3). Circuit analysis methods in modern electronics technology. Laboratory confirmation of mathematical solutions to problems involving Direct and Alternating Currents. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1811 and MATH 1212. [0925-1]

2821. Electronics Technology III. (3). Theory of solid-state devices and electron tubes with applications in power supplies, amplifiers, and other basic electronic circuits. Solid-state diodes, bipolar junction transistors, and field effect transistors are emphasized. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1811 and concurrent enrollment in TECH 1821. [0909-1]

2831. Electronics Technology IV. (3). Theory of semiconductor devices and their applications in multistage circuits, sinusoidal and nonsinusoidal oscillators, and other fundamental electronic circuits. Both discrete components and inte-

grated circuits are studied, with emphasis on integrated circuits. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2821. [0909-1]

3811. Electronics Communications. (3). Principles of modulation and demodulation are examined in depth, together with associated radio transmitter and receiver circuitry, telephony applications and electronic navigational aids. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2831. [0925-1]

3821. Industrial Electronics. (3). Study of electronic circuits and systems in modern industry. The course includes the theory and industrial applications of devices such as gas and vacuum tubes, unijunction transistors, silicon controlled rectifiers, diacs, triacs, opto-electronics, and synchros. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2831. [0925-1]

3822. Control Instrumentation. (4). A study of the theory of application of automatic control equipment, principles, operations and construction of pneumatic hydraulic, electrical, and automatic ratio controllers. *Three lecture, three laboratory hours per week.* PREREQUISITE: 2411, 3821 or permission of instructor. [0925-1]

3841. Advanced Applied Electricity. (3). The generation and utilization of single and polyphase electrical power in home and industry; DC and AC generators, motors, regulators and meters in both individual and systems applications. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1821. [0909-1]

3861. Acoustical Equipment and Studio Techniques. (3). This course sets forth the basic principles of acoustics as applied to sound waves in open air or enclosures; treatment of rooms and stages used for recording and reproduction. Techniques for setting up stages and microphone placement for small groups or large orchestras are discussed. PREREQUISITE: TECH 2831. [0925-1]

3862. Magnetic Recording and Mixing. (3). Transport systems; single and multiple sound track heads; alignment; shielding; crosstalk; high-frequency bias current; types of magnetic tape; equalization; degaussing; different types of studio recording and associated equipment; techniques of recording, mixing, mix-down, and special effects. PREREQUISITE: TECH 2831. [0925-1]

4801. Antenna Technology. (4). Detailed examination of transmission lines and antennas, using applications approach with minimum of purely mathematical analysis; applications in both wire and wireless systems. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 3811. [0925-1]

4821. Microwave Technology. (4). Generation and transmission of energy at frequencies above 300 megahertz, emphasizing techniques and equipment which contrast sharply with those at lower frequencies. *Three lecture, three laboratory hours per week.* PREREQUISITES: TECH 3811, TECH 4801 or permission of instructor. [0925-1]

4831. Computer Technology I. (3). Introduction to digital and analog computer hardware relating to computing circuits and systems; numbers systems; switching and logic circuits; storage devices; input and output devices; principles of program control. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2831 or permission of the instructor. [0701-1]

4832. Computer Technology II. (3). An introduction to internal computer organization and configuration design; component and device characteristics; data representation, transfer and storage; Boolean algebra; combinational logic. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 4831 or permission of the instructor. [0701-1]

4833. Analog Computer Technology. (3). Function of analog computer elements, problems, preparation and representative solutions of program problems. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 4831 or permission of the instructor. [0701-1]

4834. Digital Systems in Technology. (4). Industrial and commercial applications of microcomputers and microprocessors; theory of operation of MSI and LSI logical devices, memory and input/output devices; techniques of microprogramming, testing, and maintenance. *Three lecture, three laboratory hours per week.* PREREQUISITE: TECH 4832. [0701-1]

4841. Video Communications. (3). Theory and application of technical equipment for the generation, transmission, and reception of video signals, both closed circuit and broadcast. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 3811. [0925-1]

4851. Electronics Instrument Applications and Measurement Techniques. (3). Operating principles, applications and circuitry of electronics instruments, presented in a highly practical and easily understood form. Treats precision measurement techniques using common equipment such as electronic voltmeters, frequency counters and oscilloscopes; as well as bridges, sweep-frequency oscillators, wave analyzers and other pertinent component and system measuring equipment. Measurement accuracy and equipment versatility is stressed. *Two lecture, three laboratory hours per week.* [0925-1]

4861. Studio Sound Systems. (3). The recording studio as an integrated sound system; classifications of microphones; design of loudspeakers; circuitry and functions of a sophisticated mixing console. PREREQUISITE: TECH 2831. [0925-1]

Q890 INDUSTRIAL ARTS (TECH)

2911. Foundations of Industrial Education. (3). Study of the development, objectives, and current trends of industrial arts and vocational education; required for teaching endorsement in Industrial Arts. [0839-1]

3621. Upholstery. (3). A study of machines, tools, materials, principles of design, construction processes, methods, and their application to actual problems. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 3601. [0925-1]

3831. Industrial Arts Electronics. (3). Brief coverage of applied electronics for prospective teachers. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1821. [0909-1]

4353. Clinical Practice in Manual Arts Therapy. (6). Supervised clinical practice in the Physical Medicine and Rehabilitation Service at Veterans Administration Hospital, Memphis. PREREQUISITE: senior classification, with major in Industrial Arts Education. [0925-1]

4355. Energy and Power Technology. (3). Principles of energy systems and power mechanics to include energy sources, conversion and transmission. Internal and external combustion engines will include gasoline, diesel, jet and rockets. The study of atomic, solar and alternative energy sources will include laboratory experiments and problem of small engine and energy sources. *Two lecture, three laboratory hours per week.* [0925-1]

4361. Organization of The General Shop. (3). Study of problems dealing with the selection and organization of general shop activities. *Two lecture, three laboratory hours per week.* PREREQUISITE: junior standing. [0925-1]

4362. General Shop Applications. (3). This course deals with the implementation of the philosophy of the general shop with emphasis on curriculum planning. *Two lecture, three laboratory*

hours per week. PREREQUISITE: junior standing. [0925-1]

4375. Crafts for Teachers. (3). Study and experience with craft materials. [0839-1]

4382. Research and Development. (3). Materials, methods and procedures for presenting research and development in the Industrial Arts Laboratory. *Two lecture, three laboratory hours per week.* PREREQUISITE: junior standing. [0925-1]

4391. Communication-Industries. (3). Materials, methods and procedures for presenting the communication industries in the Industrial Arts Laboratory. *Two lecture, three laboratory hours per week.* PREREQUISITES: junior standing, TECH 1511 and 1811. [0925-1]

Q890 MANUFACTURING TECHNOLOGY (TECH)

1511. Graphics I. (3). An introductory course in graphic representation and presentation. Basic exercise in lettering, use of the instruments, sketching, geometric construction and projections are offered; however problem solving is stressed. *Two lecture, three laboratory hours per week.* [0925-1]

1611. Introduction to Forest Products Technology. (3). Lecture and related laboratory activities are employed to study the fundamental concepts of wood utilization, wood fabrication, operations of woodworking machines, adhesive technology, wood lamination and bending, wood anatomy, wood finishing, and the organization of forest products industries. *Two lecture, three laboratory hours per week.* [0925-1]

1711. Machine Production Techniques. (3). A study of metalworking equipment and machinery for production usage, including safety, care, layout, cutting feeds and speeds, tool grinding, drilling, tapping, shaping, turning, and milling. *Two lecture, three laboratory hours per week.* [0925-1]

2511. Descriptive Geometry. (3). A study of points, lines and planes in space with emphasis on application to problems of a technological nature. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1511. [0925-1]

2512. Graphics II. (3). A continuation of TECH 1511 to include working drawing, details, assemblies and pictorials. Shades and shadows are also considered. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1511. [0925-1]

2611. Principles of Wood Lamination and Bending. (3). A study of industrial wood lamination and bending techniques, with a major emphasis placed on adhesive technology. *Two lecture, three laboratory hours per week.* [0925-1]

2651. Survey of Forestry. (3). An introduction to forestry as it relates to tree farming, the environment, conservation and utilization practices, and its economic impact on the forest products industries. [0925-1]

3386. Industrial Safety. (3). Study of industrial hazards and safety procedures. [0925-1]

3410. Plastic Properties and Processes. (3). The classification and properties of the basic groups of plastics and the industrial processes and techniques used in transforming the raw materials into usable products. *Two lecture, three laboratory hours per week.* PREREQUISITE: CHEM 1051. [0925-1]

3421. Manufacturing Processes. (3). A study of the various processes and techniques used to shape materials into useful products. Techniques include cutting, molding, stamping, extruding, cold and hot forming, and grinding. [0925-1]

3422. Metal Manufacturing Processes. (3). Advanced study and practice in metals machining and fabrication. Emphasis is on advanced tech-

niques in duplicating equipment, numerically controlled machines, milling, shaping, grinding, and turning. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1711. [0925-1]

3505. Applied Dynamics. (3). A study dealing with motion and the effects of forces acting on particles, lines, and rigid bodies in motion. PREREQUISITES: MATH 1321 and TECH 3400. [0925-1]

3572. Technical Illustration. (3). A course dealing with the basic techniques of illustration as applied to industrial visual communication. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 2512 and 2511. [0925-1]

3573. Mechanical Design. (3). A basic consideration of mechanisms, kinematics, linkages, cams, and gears. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 2511. [0925-1]

3601. Principles of Light Frame Building Construction. (3). A study of the principles and practices of contemporary light frame building construction. Also includes the design and manufacturing of structural timbers and engineered panels. *Two lecture, three laboratory hours per week.* [0925-1]

3611. Industrial Wood Processing. (3). The study of wood product mass production techniques, to include jig and fixture design, product design, industrial woodworking machines, personnel management, and industrial wood finishing procedures. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1611. [0925-1]

3631. Wood Technology. (3). A study of the anatomy, properties and characteristics of wood. Also includes macro and micro wood identification and wood preservation. *Two lecture, three laboratory hours per week.* PREREQUISITE: permission of instructor. [0925-1]

3718. Metal Forming and Fabrication. (3). Industrial metal forming and fabrication processes and techniques. Includes layout and fabrication of sheet, plate and mill stock; casting processes and welding techniques. *Two lecture, three laboratory hours per week.* PREREQUISITE: TECH 1711. [0925-1]

3731. Metallurgy. (3). A study of the properties of ferrous and non-ferrous metals with emphasis on: physical and mechanical properties, cold and hot working, heat treatment, hardening and testing. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1711 and CHEM 1051. [0925-1]

3921. Electrical and Mechanical Safety. (3). Study of the electrical hazards associated with industry and the problems of protecting the worker from mechanical hazards on the job. [0925-1]

3931. Materials Handling Safety. (3). Study of in-plant traffic problems as they relate to safety of materials handling, both mechanical and manual. Covers safety of operation for Fork Lifts, Cranes, Trucks and Other mechanized equipment. [0925-1]

4460. Motion and Time Analysis. (3). A study of methods improvement, motion economy, and the development of time standards by direct observation, predetermined time standards, and synthesis. [0925-1]

4461. Advanced Wood Technology. (3). A study of pulp and paper technology, kiln and radio frequency drying of wood, and techniques for testing the strength properties of wood. PREREQUISITE: TECH 3631 Wood Technology. [0925-1]

4462. Inspection and Quality Control. (3). Inspecting products and controlling the quality through the use of statistical techniques. Topics for study include administration of inspection,

tolerance systems, gaging, sampling inspection plans, frequency distributions, control charts for variables and control for fraction defective and defects per unit. [0925-1]

4464. Production Control. (3). The planning and control of production with emphasis on intermittent and continuous manufacturing. Fields of study include forecasting, designing control forms, using visual controls, scheduling, dispatching, preplanning, and using critical path techniques. [0925-1]

4466. Plant Layout. (3). Designing a plant with respect to material handling, machine location, auxiliary services, capital requirements, safety, and personnel organization. [0925-1]

4468. Production Methods. (3). A study and comparative analysis of production methods and techniques used to manufacture various types of products. Emphasis is on plant visitation and analysis with respect to methods used, plant layout, production control procedures and time standards established. [0925-1]

4470. Human Performance Factors. (3). Determining the most effective way to integrate the man and the task he is to perform by studying work procedure, workstation layout, and equipment design. *Two lecture, three laboratory hours per week.* [0925-1]

4571. Machine Design. (3). A study of the design of basic machine elements, subassemblies and assemblies. *Two lecture, three laboratory hours per week.* PREREQUISITES: MATH 1212 and TECH 2511. [0925-1]

4591. Tool Design. (3). A course concerned with the design and application of jigs, fixtures and dies. *Two lecture, three laboratory hours per week.* PREREQUISITES: MATH 1212 and TECH 2511 and 3401. [0925-1]

4661. Forest Resources. (3). A study of the relationship of forest products to the economy of the United States. PREREQUISITES: permission of instructor and junior classification. [0925-1]

4951. Fire Safety. (3). Study of the causes of fire, organization of fire brigades, methods of fire suppression and protection of property. PREREQUISITE: TECH 3386 or permission of the instructor. [0925-1]

4952. Chemical Safety. (3). Study of chemical hazards to the worker and environment and methods for control. PREREQUISITE: TECH 3386 or permission of the instructor. [0925-1]

4961. Industrial Hygiene. (3). Acquaints students with potential hazards of the work environment. Covers the exposure of the worker to toxic materials and physical stresses, sampling techniques for determining exposure and methods of prevention. [0913-1]

Q890 SUPPORTING COURSES (TECH)

1010. Introduction to Computer Usage. (2). Instruction on how computers operate. Methods of communicating with computers through input and output devices will be demonstrated and used. Elementary and familiar calculations will be programmed in BASIC and the student will have hands-on operational experience with the remote terminal equipment. *One lecture, two laboratory hours per week.* PREREQUISITE: High School Mathematics. [0701-1]

1411. Introduction to Technology. (1). An introduction to technology with emphasis on the engineering technology programs as to content and opportunities upon graduation; a study of technical applications, calculations and activities related to the various technological disciplines; approached to basic research techniques and problem solving. [0925-1]

2411. Introduction to Instrumentation. (3). Study of basic mechanical and electrical instruments used in the measurement of temperature, pres-

sure, flow and level. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1411, 1511, 1811 and MATH 1212.[0925-1]

2431. Technical Report Writing. (3). Studies of scientific methods for organizing technical reports. Topics include technical correspondence and resumes; systematizing, analyzing and interpreting technical information and the presentation of charts, diagrams and other graphic aids. PREREQUISITES: TECH 1511 and ENGL 1102. [0925-1]

2556. Site and Environmental Planning. (3). A study of building sites; selection and utilization, including environmental influences. Technical aspects such as zoning, contour lines, parking, ingress/egress, site drainage, building location and landscaping are included. *Two lecture, two laboratory hours per week.* PREREQUISITE: TECH 2555. [0913-1]

2561. Building and Construction Systems. (3). A comprehensive study of building types and building systems as they relate to Architectural Technology. *Two lecture, two laboratory hours per week.* PREREQUISITE: TECH 2551. [0925-1]

2944. Analysis for Engineering Technology. (4). Application of mathematical, scientific, and engineering principles to the solution of technology problems, using a variety of examples from the various major areas in Technology. Students will analyze and provide acceptable solutions to an ascending order of well designed problems using the language and techniques of related technological disciplines, and selected areas of mathematics, such as algebra, trigonometry, calculus, and differential equations. *Three lecture, three laboratory hours per week.* PREREQUISITE: MATH 1321. [0925-1]

3350. Fluid Power. (3). Fundamental principles of hydraulics and pneumatics involving application, problem solving and basic design of fluid power circuits. *Two lecture, three laboratory hours per week.* PREREQUISITES: TECH 1411, 1811. [0925-1]

3400. Forces and Force Systems. (3). A study of force systems and their solution; that branch of mechanics which deals with forces and with the effects of forces acting upon rigid bodies at rest. PREREQUISITES: TECH 2511, MATH 1321, PHYS 2112. [0925-1]

3401. Strength of Materials. (3). Analysis and study of structural materials. PREREQUISITES: TECH 3400, MATH 1321, PHYS 2112. [0925-1]

3411. Industrial Materials. (3). A course designed to acquaint the student with the various properties of structural materials and the methods used to test for these properties. *Two lecture, three laboratory hours per week.* [0925-1]

3440. Project Cost Evaluation. (3). A study of the methods, techniques and formulas employed in the evaluation of alternative solutions to technological problems related to manufacturing and construction projects. PREREQUISITE: junior standing. [0925-1]

4381. Principles of Supervision. (3). Study of the functions of supervisory personnel. [0925-1]

4944. Problems in Technology. (3). Study and research in the specific area. PREREQUISITE: senior classification for majors and minors in Technology who can offer satisfactory evidence of being qualified to benefit by the course. [0925-8]

GEOLOGY

PROFESSOR RICHARD W. LOUNSBURY,
Chairman

Room 312, Engineering Building

Requirements for the major and minor in geology are listed on page 84.

Q850 GEOLOGY (GEOL)

1101. Physical Geology. (4). A study of the earth's composition and structure and the processes which affect it. Emphasis is on the crust of the earth and the processes which continually modify the surface. *Three lecture, two laboratory hours per week.* [1914-1]

1201. Historical Geology. (4). The history of the earth and its life as interpreted from the rock and fossil records. The principles of interpreting the records and the succession of geologic and biologic events which have led to the modern world. *Three lecture, two laboratory hours per week.* PREREQUISITE: GEOL 1101. [1914-1]

2311. Crystallography and Mineralogy. (4). Introduction to crystallography and crystal chemistry. Physico-chemical properties and identification of the important ore and rock forming minerals. *Three lecture, two laboratory hours per week.* PREREQUISITES: GEOL 1101 and 1201; CHEM 1111; COREQUISITE: CHEM 1112. [1914-1]

2312. Mineralogy and Petrology. (4). A continuation of Geology 2311, with emphasis on mineral and rock identification. *Two lecture, four laboratory hours per week.* PREREQUISITE: GEOL 2311. [1914-1]

3100. Life of the Past. (3). An investigation of the fossil record of the history of life and a consideration of the concepts used in interpreting the significance of that record. This course is designed primarily for the general student. Credit will not be given toward the degree requirements for a major in geology. [1914-1]

3211. Introduction to Paleontology. (4). A study of fossil invertebrate animals and their importance in the interpretation of ancient environments, evolution, and geologic time. *Three lecture, two laboratory hours per week.* PREREQUISITES: GEOL 1101 and 1201. [1918-1]

3512. Structural Geology. (4). Rock structures; origin, criteria for recognition and solution of structural problems. *Two lecture, four laboratory hours per week.* PREREQUISITE: GEOL 1201. [1914-1]

3712. Sedimentation and Stratigraphy. (4). Principles of stratigraphy and sedimentation; interrelationships of structure, stratigraphy, and environments of deposition. *Three lecture, two laboratory hours per week.* PREREQUISITES: GEOL 1201 or consent of instructor. [1914-1]

3802. Introduction to Oceanography. (3). Principles of physical and chemical oceanography. Sea floor topography, geology, salinity and contribution of life to physical and chemical aspects. Taught from the point of view of a geological engine that is driven by internal forces and creates earth surface features. *Three lecture hours per week.* PREREQUISITE: GEOL 1201 or consent of instructor. [1919-1]

3901. Environmental Geology. (3). Geological constraints on human society. Energy resources, mineral resources and criteria for land use. NOTE: Credit will not be given toward the degree requirements for a major in geology. [1914-1]

4100. Petroleum Geology. (3). Application of geologic principles to the search for economic accumulations of oil and gas. Emphasis on prospect selection via subsurface techniques. *Two lecture, two laboratory hours per week.* [1914-1]

4121. Optical Crystallography. (3). The principles and methods of study of optical crystallography. The use of the polarizing microscope in the identification of minerals. *Two lecture, four laboratory hours per week.* PREREQUISITE: GEOL 2312. [1914-1]

4201. Airphoto Interpretation and Remote Sensing. (4). Introduction to the theory and application of black and white and color air photos and side-looking radar, multispectral scanner and infrared imagery. Laboratory primarily con-

cerned with black and white air photos. *Three lecture, two laboratory hours per week.* [1914-1]

4202. Geomorphology. (4). Theories of landscape development approached from a consideration of the processes active at the earth's surface: weathering, pedogenic, mass-wasting, ground-water, fluvial, eolian, shoreline and glacial. *Three lecture, two laboratory hours per week.* [1914-1]

4251. Quaternary Geology. (3). Quaternary stratigraphy and history with special emphasis on the implications of climatic change. Geologic techniques particularly suited to Quaternary research. [1914-1]

4301. Geostatistics. (3). Application of statistical techniques to selected geological problems. Hypothesis testing, regression, correlation, time trend analysis, curve fitting, Markov chains, etc. A problem-oriented course. *Two lecture, two laboratory hours per week.* PREREQUISITE: senior standing in geology or consent of instructor. [1914-1]

4312. Introduction to X-Ray Diffraction. (3). The basic principles of x-ray diffraction. Its application to crystallographic and mineralogic problems including mineral identification by the powder method. *One lecture, four laboratory hours per week.* PREREQUISITE: permission of the instructor. [1914-1]

4322. Petrography. (4). Classification, description, and thin-section study of rocks by means of the petrographic microscope. *Three lecture, two laboratory hours per week.* PREREQUISITE: GEOL 1421. [1914-1]

4332. Introduction to Geochemistry. (3). A study of the geological and chemical processes which govern or control the migration and distribution of the elements and atomic species of the earth in space and time. *Three lecture hours per week.* PREREQUISITE: GEOL 2312. [1915-1]

4421. Stratigraphic Paleontology and Paleocology. (3). Concepts and methods of biostratigraphy and paleocology. The importance of ancient organisms as contributions to sedimentation, indicators of environment, and guides to correlations of strata. *Three lecture hours per week.* PREREQUISITES: GEOL 3211 and 3712. [1918-1]

4511. Economic Mineral Deposits. (3). Origin, occurrence, and composition of metallic and non-metallic mineral deposits. *Three lecture hours per week.* PREREQUISITES: GEOL 2311, 2312, and 3512. [1914-1]

4601. Engineering Geology. (3). The application of principles and knowledge of geology to engineering practice, especially in highways, construction, dam sites, foundations, water resources, and location of certain engineering materials. *Three lecture hours per week.* PREREQUISITE: consent of instructor. [0911-1]

4622. Geology Field Camp. (6-8). Mapping of the structure and lithology of a prescribed geologic area. To be offered during the summer. Course may be taken at a college field camp offered by other schools subject to approval of major adviser. [1914-1]

4630. Soil and Clay Mineralogy. (3). Occurrence of non-clay and clay minerals in soils and sediments. Origin and classification of clays and identification of clays and non-clay minerals. Engineering properties of soils related to clay and non-clay minerals. *Two lectures, two laboratory hours per week.* [1914-1]

4632. Applied Geophysics. (4). A survey of geophysical methods which emphasizes seismic and electrical investigations employed in engineering practice. The use of resistivity, seismograph and magnetometer in the investigation of subsurface materials. The location of sand, gravel, and subsurface water are discussed and will be supplemented by field measurements

with these instruments. *Two lecture, four laboratory hours per week.* [1916-1]

4701. Spring Field Trip. (1-2). Conducted field trips during spring vacation. About 30 hours of field work will follow 2-4 hours of lectures. Open to non-majors. Among the areas which may be included are Ouachita-Arbuckle-Wichita Mountains of Oklahoma; Ouachita, Ozark dome and adjacent mineral districts; central and southern Appalachians; and Gulf Coastal Plain. Check *Schedule of Classes* for specific location. NOTE: May be repeated three times when location varies. A total of no more than 8 hours credit may be earned. *Dates, hours, and credits to be arranged.* PREREQUISITE: consent of instructor. [1914-8]

4721. Investigations In Geology. (1-3). Individual or group work on topics of current interest. PREREQUISITE: consent of instructor. [1914-8]

4731. Senior Thesis. (1-3). An original study, on a subject of geological significance, to be carried on independently by the student with faculty supervision. PREREQUISITE: senior standing in Geology. [1914-8]

MECHANICAL ENGINEERING

PROFESSOR JOHN D. RAY, Acting Chairman
Room 108A, Engineering Building

Requirements for the B.S. in Mechanical Engineering are listed on page 83.

Q870 MECHANICAL ENGINEERING (MECH)

2332. Dynamics. (3). Kinematics and kinetics of particles and rigid bodies. *Three lecture hours per week.* PREREQUISITE: CIVL 2131. [0901-1]

3311. Engineering Thermodynamics I. (3). Laws of thermodynamics and their applications to engineering problems. *Three lecture hours per week.* PREREQUISITE: MATH 2322; PHYS 2512. [0910-1]

3312. Engineering Thermodynamics II. (3). Continuation of MECH 3311 Engineering Thermodynamics I. *Three lecture hours per week.* PREREQUISITE: MECH 3311, 3331. [0910-1]

3321. Dynamics and Control of Machines I. (3). Dynamics analysis of mechanism including rigid body dynamics and balancing of machines. Introduction to linear mechanical systems, and the stability analysis of linear mechanical system. *Three lecture hours per week.* PREREQUISITES: MATH 2322, MECH 2332. [0910-1]

3322. Mechanics of Materials. (4). Analysis of stress and strain of deformable solids; tension, compression, torsion and flexure. *Three lecture, three laboratory hours per week.* PREREQUISITE: CIVL 2131 [0910-1]

3323. Mechanical Design and Analysis I. (3). Methodology and practice in designing machine components by integrating principles from mechanics of materials, failure theory, fatigue, economics and other principles. PREREQUISITES: MECH 3321 and MECH 3322. [0910-1]

3326. Biomedical Systems Analysis—Mechanical. (3). Introduction to the concepts used in analyzing living systems. Simulation of body functions with mechanical and computer models. Familiarization with the design of mechanical bioengineering device such as heart valves, heart-lung machines, renal dialysis machines, etc. [0905-1]

3331. Mechanics of Fluids. (4). Statics and dynamics of fluids; applications to the measurement of properties of water and air flows. *Three lecture, three laboratory hours per week.* CO-REQUISITE: MECH 2332. [0910-1]

3341. Mechanical Engineering Analysis. (3). Engineering methods, classical analysis, computer techniques, and their interactions with mechanical engineering problems. PREREQUISITE: MATH 3391. [0910-3]

3361. Materials Science. (4). Structure and properties of solids; modification of structure for engineering purposes; characteristics of polymers, ceramics, and metals. *Three lecture, three laboratory hours per week.* PREREQUISITE: PHYS 2512. [0915-1]

4309. Gas Dynamics. (3). Thermodynamics of fluid flow including dynamic and energy relations, adiabatic and diabatic flows. *Three lecture hours per week.* PREREQUISITE: MECH 3312. [0910-1]

4310. Fluid Power I. (3). Design, analysis and evaluation of pneumatic control components and systems. Includes principles of fluid logic, pneumatic sensors, fluid amplifiers and other fluid logic devices. [0910-1]

4311. Heat Transfer I. (3). Fundamentals of conduction and convection heat transfer. Discussion of Fourier Series, Laplace transforms, and Numerical methods used in heat transfer analyses. *Three lecture hours per week.* PREREQUISITE: MECH 3311. [0910-1]

4312. Power Generation. (3). Application of the principles of thermodynamics, fluid mechanics and heat transfer to the conversion of useful energy. Topics include terrestrial and thermodynamic limitations, power plants, nuclear energy, solar energy, and direct energy conversion. PREREQUISITE: MECH 4311. [0910-1]

4313. Heat Transfer II. (3). Continuation of Heat Transfer I with application to the design of heat transfer systems. PREREQUISITE: MECH 4311. [0910-1]

4315. Ventilation and Air Conditioning. (3). Psychrometrics. Heating, ventilating, air conditioning, refrigeration. *Three lecture hours per week.* PREREQUISITE: MECH 3311. [0910-1]

4316. Energy Conservation and Management. (3). Energy conservation including combustion, heat distribution, heat rejection, heating system efficiency, etc. Consideration given to the effects of energy production and utilization on the environment. Problems of energy management are considered. [0910-1]

4317. Fundamentals of Solar Engineering. (3). An introduction to the engineering applications of solar energy including discussions of solar energy collectors, storage systems, and uses such as power generation and heating and cooling of buildings. PREREQUISITE: MECH 4311. [0910-1]

4322. Mechanical Design and Analysis II. (2). An analytical treatment of the methods used in the design process including the topics of creativity, probability, and optimization as applied to the design process, from concept through preliminary design to final design. PREREQUISITE: MECH 3323. [0910-1]

4323. Mechanical Design and Analysis III. (2). The design process applied to real multidisciplinary problems. A team approach is used to accomplish design projects from a broad spectrum of interest areas that reflect contemporary problems in Mechanical Engineering. [0910-1]

4325. Advanced Mechanics of Materials. (3). Unsymmetrical bending and torsion of flexural members of non-circular cross-section, beams on elastic foundations and other selected topics; deformations beyond the elastic limit, theories of failure. [0910-1]

4331. Turbomachinery. (3). Aerodynamics and flow of fluids in stationary and rotating passages. One, two and three dimensional analysis. *Three lecture hours per week.* PREREQUISITE: MECH 3331. [0910-1]

4333. Fluid Power II. (3). The design and analysis of hydraulic power and control components and systems. [0910-1]

4334. Engineering Acoustics and Noise Control. (3). An engineering analysis of acoustics related

to noise and its control, applications to the control of noise in machines, buildings, industrial facilities and transportation. [0910-1]

4344. Dynamics and Control of Machines II. (3). Analysis of mechanical vibrations for multi-degrees-of freedom systems and the response, control and stability of mechanical systems. PREREQUISITE: MECH 3321. [0910-1]

4351. Nuclear Engineering. (3). Power generation. Peaceful uses of nuclear energy. *Three lecture hours per week.* PREREQUISITES: upper division standing, consent of instructor. [0920-1]

4361. Metallurgy. (4). Physical metallurgy, heat treatment, and metallography. *Three lecture, three laboratory hours per week.* PREREQUISITE: MECH 3361. [0914-1]

4371. Mechanical Vibrations. (3). Kinematics of harmonic and non-harmonic vibrations; system of one and several degrees of freedom, free and forced vibrations; self-excited vibrations. *Three lecture hours per week.* PREREQUISITE: MATH 3391. [0910-1]

4381. Manufacturing Operations I. (3). Machines, tools, and processes used in modern production. *Three lecture hours per week.* PREREQUISITE: MECH 3322. [0910-1]

4382. Manufacturing Operations II. (3). Continuation of Manufacturing Operations I. Design of electro-mechanical systems for manufacturing processes and production operations. Designs based on optimization of man-machine interaction, selection of materials and the manufacturing process for high speed production equipment. PREREQUISITE: MECH 4381. [0910-1]

4391. Mechanical Engineering Projects I. (1-3). Independent investigation of a mechanical engineering problem in consultation with instructor. PREREQUISITE: consent of instructor. [0910-8]

THE UNIVERSITY COLLEGE

ROBERT J. HATALA, *Dean*
Room G1, Johnson Hall

A description of the University College including degree requirements appears on page 87. The following courses are open to students enrolled in the University College. Others may enroll with the permission of the Dean of the College.

The specific content of Liberal Studies and Thematic Studies courses will vary from semester to semester; general course descriptions are presented here.

R950 LIBERAL STUDIES (UNIV)

1010. Communication I. (6). Exercises in critical listening and interpretation and in effective writing and speaking based on rhetorical analyses of selected documents (e.g., essays, documentary films, narratives, plays, poems, speeches, etc.). **PREREQUISITE:** application or admission to University College, or permission of the Dean. [4901-9]

1020. Communication II. (6). Research into and critical interpretation of those media which create an environment of symbols and of the effects of such environments upon human belief and action. Media studies will include for example, writing in periodical and book form, radio, television, film, recorded music and systems of electronic communication. Students will do individual research into symbols used for communication and the environment(s) these symbols produce. **PREREQUISITE:** UNIV 1010 or ENGL 1101 and ENGL 1102 or their equivalents, and application or admission to the University College or permission of the Dean. [4901-9]

1210. Humanities. (6). Research into and critical interpretation of major documents and symbols of Western civilization, with emphasis upon man's attempt, in philosophy, religion, history, literature, and the fine arts, to frame a coherent place for himself in his world. One or two historical periods will be stressed. **NOTE:** *On occasion, this course will be the same as certain sections of HIST 1301 and HIST 1302, focusing upon a survey of Western civilization. See the Schedule of Classes.* **PREREQUISITE:** applica-

tion or admission to University College, or permission of the Dean. [4903-9]

1410. Social Science. (6). Introduction to the fundamental concepts used by the disciplines of anthropology, economics, political science, geography, psychology and sociology. Emphasis shall be placed upon understanding human behavior through the study of culture, society and its institutions, personality and mental processes, the allocation of resources, and the distribution of power. Students will be encouraged to develop a social science perspective on human behavior through the study of important research findings and through research of their own. **NOTE:** *On occasion, this course will be the same as certain sections of INTL 1101 and 1102, with a regional locus upon Third World Nations. See the Schedule of Classes.* **PREREQUISITE:** Application or admission to University College, or permission of the Dean. [4903-9]

1610. Natural Science. (6). Introduction to basic processes of physical and natural science as applied to selected areas of biology, chemistry, geography, geology, and physics. Formulations of models and use of inductive reasoning in the study of physical phenomena will be used to illustrate the interrelationships among the natural science disciplines. Laboratory work will be included. **PREREQUISITE:** Application or admission to University College, or permission of the Dean. [4902-9]

1810. Leisure and Recreation. (1 or 4). Knowledge of relationship between leisure, recreation, and work with special emphasis given to a balanced lifestyle. Opportunities will be provided to participate in and to demonstrate selected recreational skills and activities. **PREREQUISITE:** Application or admission to University College, or permission of the Dean. [4901-9]

R950 THEMATIC STUDIES (UNIV)

3500-3599. Thematic Studies. (6-9). Interdisciplinary seminars to be organized about signifi-

cant problems, themes, or ideas. Specific course descriptions will appear each semester in the "Addenda" section of the *Schedule of Classes*. **PREREQUISITE:** Application or admission to the University College, or permission of the Dean. [4901-7]

R950 INDIVIDUALIZED STUDIES (UNIV)

4110. Internship. (3-12). Supervised training in work related to a student's educational objectives. This course may be repeated up to a maximum of 12 hours. **PREREQUISITE:** Admission to the University College. [4999-8]

4380. Independent Study. (1-3). Directed individual study or research. A student who has identified an area of study pertinent to his coordinated study program, but not routinely taught, may pursue the study under the direction of a faculty member. This course may be repeated up to a maximum of 6 hours. **PREREQUISITE:** Admission to the University College. [4999-8]

4996. Special Project. (9). Intensive study of a matter of concern central to the student's educational objectives. **PREREQUISITE:** Admission to the University College. [4999-8]

R950 Experiential Learning (UNIV)

A portfolio describing and documenting knowledge gained through experience or non-traditional instruction may be prepared by a University College student for assessment by a faculty member. (See page 26 for fees and page 87 for more details.) That faculty assessor recommends the descriptive title, level, and amount of credit to be assigned by the dean of University College.

1900-1999. Introductory Level Experiential Learning in (descriptive title).

2900-2999. Intermediate Level Experiential Learning in (descriptive title).

3900-3999. Advanced Level Experiential Learning in (descriptive title).

INDEPENDENT DEPARTMENTS AND PROGRAMS

AEROSPACE STUDIES

LT. COLONEL WILLIAM F. CORROUM

*Professor of Aerospace Studies
Room 404, Jones Hall*

Details of the Air Force ROTC program are on page 93.

A010 AEROSPACE STUDIES (ROTC)

1111. Air Force Today. (1). A study of world military forces is begun through treatment of the U.S. Department of Defense and the doctrine, mission and functions of the United States Air Force. *One class hour per week and one hour of Leadership Laboratory. [1803-1]*

1112. Air Force Today. (1). A continuation of Aerospace Studies 1111. *One class hour per week and one hour of Leadership Laboratory. [1803-1]*

2211. The Development of Air Power. (1). This course is an introduction to the study of air power. It is developed from a historical perspective starting before the Wright brothers and continuing through the early 1970's. *One class hour per week and one hour of Leadership Laboratory. [1803-1]*

2212. The Development of Air Power. (1). A continuation of Aerospace Studies 2211. *One class hour per week and one hour of Leadership Laboratory. [1803-1]*

PROFESSIONAL OFFICER COURSE

3211. Aerospace Studies Four-Week Field Training. (4). A twenty-eight day course conducted during the summer at an active installation of the USAF which consists of approximately 185 hours of instruction in Air Force base functions, leadership, physical training, Air Force environment, career orientation, and survival training. Students are in assigned groups of twenty-five and individually counseled, and evaluated on their performance. Emphasis is given to self-initiated leadership activities. **PREREQUISITE:** ROTC 1111, 1112, 2211, 2212. or equivalent. *[1803-8]*

3212. Aerospace Studies Six Week Field Training. (6). A forty-two day course conducted during the summer at an active installation of the USAF which consists of approximately 258 hours of instruction on the role of the military forces, organization of the Defense Department, instruments of national security, Air Force base functions, leadership, physical training and Air Force environment. Students are assigned to groups of twenty-five and individually counseled and evaluated on their performance. *[1803-8]*

3311. Air Force Management and Leadership. (3). A study of professionalism, leadership and management. This study includes the meaning of professionalism, professional responsibilities, the military justice system; leadership theory, functions and practices; management principles and functions; problem solving; and management, tools, practices and controls. *Three class hours per week and one hour of Leadership Laboratory. [1803-1]*

3312. Air Force Management and Leadership. (3). A continuation of Aerospace Studies 4411. *Three class hours per week and one hour of Leadership Laboratory. [1803-1]*

4411. National Security Forces in Contemporary American Society. (3). A course concerned with the fundamental issues and requirements of national security. It entails extensive study of civil-military relations, the nature of the international environment and strategic requisites for defense. *Three class hours per week and one hour of Leadership Laboratory. [1803-1]*

4412. National Security Forces in Contemporary American Society. (3). A continuation of Aerospace Studies 3311. *Three class hours per week and one hour of Leadership Laboratory. [1803-1]*

4413. Elementary Aeronautics. (3). An introduction to aviation and the fundamental principles of flight; basic meteorology and its applications to aviation; use of navigation computers, instruments, and radio aids; basic regulations governing airmen, aircraft operations, and flight safety. This course is designed to prepare for the FAA Private Pilot Written Examination. *Two class hours per week. [1803-1]*

NURSING

ASSOCIATE PROFESSOR LOIS HOLLOMON,
Chairman

Room 316, Manning Hall

Requirements for the degrees in Nursing are listed on page 89.

U970 NURSING (NURS)

1000. Drug Dosage Computation. (1). This course is designed to assist the student to transfer basic mathematical concepts to dosage computations, become familiar with the most commonly used systems of drug measurement, exchange between these systems, and compute dosage safely and accurately. *[5208-1]*

1101. Fundamentals of Nursing Care I. (5). A foundation for other nursing courses. Concepts of basic human needs and principles of nursing care related to meeting the needs are combined with nurse-patient and nurse-team relationships. Laboratory experience provides correlation with classroom learning. *Three lecture, six laboratory hours per week. COREQUISITE:* BIOL 1731, NURS 1000. *[5208-1]*

1102. Fundamentals of Nursing Care II. (5). Continuation of Fundamentals of Nursing I. Emphasis is on more specific patient needs and nursing problems. Nursing intervention is developed toward meeting the psychological as well as the physiological needs of the patient. Laboratory experience provides opportunity for identification of needs and the formulation of a plan of care for the individual patient. *Three lecture, eight laboratory hours per week. PREREQUISITES:* NURS 1000 and 1101 and BIOL 1731. **COREQUISITE:** BIOL 1732. *[5208-1]*

2112. Fundamentals of Nursing Care III. (5). The normal physiological process is emphasized in the study of the mother and the newborn, progressing to the abnormalities which may occur. Problem solving techniques are utilized in planning and initiating nursing care in the clinical laboratory. *Six lecture, sixteen laboratory hours per week. PREREQUISITES:* NURS 1000, 1101, 1102, BIOL 1731 and 1732, and HMEC 2202. *[5208-1]*

2113. Fundamentals of Nursing Care IV. (5). A study of normal growth and development of the child within a family from infancy through adolescence. Emphasis is placed on the problem solving technique in identifying the scientific principles of nursing care of the sick child, and how behavior deviates during illness. Laboratory experience is designed to help the student in formulating, implementing, and evaluating nursing care within the hospital and community agencies. *Six lecture, sixteen laboratory hours per week. (offered summer and one half fall and/or spring semester). PREREQUISITES:* NURS 1000, 1101, 1102, and BIOL 1731 and 1732, PSYC 1101. *[5208-1]*

2114. Fundamentals of Nursing Care V. (5). A study of individual and group behavior with emphasis on appropriate skillful nursing intervention of the mentally ill. Laboratory experience provides opportunity for nurse-patient interaction. *Six lecture, twelve laboratory hours per week (offered summer and one half fall and/or spring semester). PREREQUISITES:* NURS 1000, 1101, 1102, BIOL 1731 and 1732, and PSYC 1101. *[5208-1]*

2201. Nursing Perspective. (1). This course is designed to assist the student in adjusting to nursing practice. The status and problems of the occupation of nursing are studied with emphasis on the responsibilities of the registered nurse and her relationship with the nursing organizations. **PREREQUISITES:** NURS 1000, 1101, 1102. *[5208-1]*

2202. Fundamentals of Nursing Care VI. (10). A common-problems approach to nursing principles basic to the care of adults and children. Emphasis is placed on deviation from normal health patterns, both physical and emotional, and appropriate nursing intervention is explored. Laboratory experience is designed for depth and scope in formulating, implementing, and evaluating nursing care. *Six lecture, sixteen laboratory hours per week. PREREQUISITES:* NURS 1000, 1101, and 1102, BIOL 1731 and 1732, and HMEC 2202. *[5208-1]*

3000. Pharmacology in Nursing. (2). This course will integrate knowledge from pharmacology and nursing to explore the physiological and psychological reactions to drug therapy. It will examine the use, actions, and effects of major drug groups and appropriate nursing responsibilities. *[1203-1]*

3100. Community Health I. (4). This course will explore the role of the professional nurse in the community by utilizing the nursing process in primary, secondary, and tertiary nursing care. The view of man as holistic with physical, social, and psychological needs will be emphasized. Nursing history-taking will be stressed. Laboratory experience will be in a community setting one day per week. *[1203-1]*

3200. Community Health II. (5). Continuation of Community Health I, utilizing theories of teaching and learning in teaching client, family, and groups in the community setting to promote optimum health maintenance. Using the nursing process, the student will identify the health needs of the client, significant others, and the community as a whole. More emphasis will be placed on community experience in various settings. Physical assessment skills will be stressed. *[1203-1]*

4000. Clinical Nursing I. (5). This course emphasizes physiological and psychological concepts underlying nursing intervention. Laboratory experience will be in a variety of health care settings, based on individual student's needs and preferences. Clinical experience will focus on application of management principles and problem-solving in nursing care. *[1203-1]*

4100. Nursing Management Seminar. (3). Basic principles of management will be analyzed and applied to nursing management. *[1203-1]*

4200. Clinical Nursing II. (5). Continuation of Clinical Nursing I. Laboratory experiences will be in health care settings in areas of concentration chosen by the student. Emphasis will be on role change, professional issues, application of nursing research, and change theory in the professions. A research paper will be required. *[1203-1]*

MEMPHIS STATE UNIVERSITY LIBRARIES

V945 MSU LIBRARIES (LBRY)

2010. The Use of Library Materials, Resources, and Bibliography. (2). An introduction to the organization of academic library material with emphasis on bibliographic access to information. Course content will consist of lectures and assigned research problems designed to acquaint the student with general and specialized methods of access to library material. [1601-1]

INTERNATIONAL STUDIES

ASSOCIATE PROFESSOR J. REX ENOCH,
Director

*Office of International Studies, Old Brister
Library, 130*

Courses offered for the International Studies program with the cooperation of two or more University departments are listed below. Although some of the interdepartmental courses at the upper-division level are designed primarily to serve the needs of students participating in interdisciplinary programs, enrollment in the courses is not limited to these studies. Descriptions of majors are found on pages 91-92.

V935 INTERNATIONAL STUDIES (INTL)

1101. Analysis of Developing Nations. (3). An interdisciplinary survey of developing nations which is designed to provide undergraduate students a basic understanding of other societies and the problems of technologically developing nations. Basic concepts and methods of the social sciences will be employed to study processes of social change in cross-cultural comparison. NOTE: *This course when taken with its sequence, INTL 1102 has been approved to satisfy the social science requirement of the University College (UNIV 1410). A student may not receive credit for both INTL 1101-1102 and UNIV 1410.* [2210-1]

1102. The Third World: A Regional View. (3). An interdisciplinary survey of contemporary developing nations within a major world region. The regional focus will be on Africa, Latin America, Southeast Asia, or the Indian Subcontinent. [2210-1]

4201. Seminar in Latin American Studies. (3). An interdisciplinary seminar which focuses on a specific theme or region in Latin America and

incorporates significant materials from the several disciplines in the program in Latin American Studies. A written report will be presented for a panel discussion. PREREQUISITE: permission of the Latin American Studies advisor. [2210-1]

4301. Seminar in African Studies I. (3). An interdisciplinary seminar designed to help the upper-classman to integrate his knowledge of Africa and to exercise his competence in several disciplines through supervised research. PREREQUISITE: Nine hours of course work in African studies representing three disciplines from the group anthropology, geography, history, and political science, or permission of the African Studies advisor. [2210-1]

4302. Seminar in African Studies II. (3). A continuation of International Studies 4301. PREREQUISITE: INTL 4301. [2210-1]

4601. Seminar in International Relations. (3). Investigation of selected topics in international relations from an interdisciplinary perspective. Individual research and presentation of a major paper which integrates the tools, data or concepts of two or more disciplines. PREREQUISITE: permission of the International Relations advisor. [2210-1]

URBAN STUDIES

ASSISTANT PROFESSOR STANLEY E. HYLAND,
Coordinator

A description of the interdisciplinary program in Urban Studies appears on page 92. Requirements for the major and minor in Urban Studies are listed on page 92. Courses offered by the Departments of Anthropology, Economics, Geography, History, Political Science, and Sociology and Social Work are included in this program, and the descriptions of these courses will be found under the appropriate departmental headings.

V980 URBAN STUDIES (URBN)

4001. Urban Studies Seminar. (3). A seminar on urban problems and their causes, an overview of the perspectives and contributions of each of six participating disciplines which include: urban anthropology, urban geography, urban history, urban economics, urban politics, and urban sociology. In addition summary reviews of problems and proposed solutions in related fields will be presented. Required for all majors. [2214-1]

4632. Urban Research. (3). (Same as Sociology 4632). Extensive exploration of research methods that have proved useful in the study of urban social phenomena; the application, limitations, and advantages of various research approaches. Required of all majors. [2214-1]

UNIVERSITY HONORS PROGRAM

PROFESSOR JOSEPH R. RILEY, *Director*

A description of the University Honors Program appears on page 90. Descriptions of college and departmental programs are found in the appropriate course listings.

V960 UNIVERSITY HONORS PROGRAM (UNHP)

3100-3199. Junior Honors Colloquium I. (3). Interdisciplinary colloquium centering around a broad theme or topic. Specific course descriptions will appear each semester in the "Addenda" section of the *Schedule of Classes*. PREREQUISITES: Junior standing and permission of the Director of the University Honors Program. [4999-1]

3200-3299. Junior Honors Colloquium II. (3). Same as UNHP 3100, except a different theme or topic will be used. Specific course descriptions will appear each semester in the "Addenda" section of the *Schedule of Classes*. PREREQUISITES: Junior standing and permission of the Director of the University Honors Program. [4999-1]

4100-4199. Senior Honors Seminar I. (3). Interdisciplinary seminar on a somewhat narrower theme or topic than the ones used in the junior honors colloquia. Specific course descriptions will appear each semester in the "Addenda" section of the *Schedule of Classes*. PREREQUISITES: Senior standing and permission of the Director of the University Honors Program. [4999-1]

4200-4299. Senior Honors Seminar II. (3). Same as UNHP 4100, except a different theme or topic will be used. Specific course descriptions will appear each semester in the "Addenda" section of the *Schedule of Classes*. PREREQUISITES: Senior standing and permission of the Director of the University Honors Program. [4999-1]

4300. Senior Honors Thesis. (3). In lieu of one of the above courses, the honors student may write a thesis on a topic approved by the University Honors Council, and directed by a faculty committee chosen by the student and approved by the Honors Council. PREREQUISITES: Senior standing and permission of the Director of the University Honors Program. [4999-8]



FACULTY AND STAFF

ACADEMIC

JERRY NEAL BOONE, Ph.D., *Vice President for Academic Affairs*
 VICTOR FEISAL, Ph.D., *Associate Vice President for Academic Administration*
 RICHARD R. RANTA, Ph.D., *Assistant Vice President-Academic Programs*
 MARANELL KHATEL, M.Ed., *Director of Academic Planning*
 MARTHA L. PORTER, A.B.D., *Associate Director of Administrative Planning*
 NOEL A. SCHWARTZ, M.Ed., *Research Associate*
 EDMUND P. SEGNER, JR., Ph.D., *Associate Vice President for Research and Graduate Studies*
 ALICIA TILLEY, Ed.D., *Dean of Graduate Studies*

NICHOLAS L. WHITE, J.D., *Dean of The School of Law*

WALTER RHEA SMITH, Ph.D., *Dean of The College of Arts and Sciences*

ROBERT M. CROWE, Ph.D., *Dean of the College of Business Administration*

RICHARD R. RANTA, Ph.D., *Acting Dean of the College of Communication and Fine Arts*

ROBERT L. SAUNDERS, Ed.D., *Dean of The College of Education*

ROGER E. NOLTE, Ph.D., *Dean of The Herff College of Engineering*

ROBERT T. HATALA, Ph.D., *Dean of the University College*

JOHN Y. EUBANK, JR., Ed.D., *Dean of Admissions and Records*

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RICHARD W. O'BRYAN, Ed.D., *Associate Dean of Admissions and Records (Records)*

RAYMOND WILSON WALKER, Ed.S., *Dean, Evening Academic Services*

FRANK N. PHILPOT, Ed.D., *Assistant to the President for Special Services*

WILLIAM F. CORROUM, M.S., *Chairman, Department of Aerospace Studies*

LESTER J. POURCIAU, JR., Ph.D., *Director of Libraries*

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LOIS J. HOLLOMAN, M.S.N., *Chairman, Department of Nursing*

JAMES D. SIMMONS, B.A., *Director of University Press*

G. DOUGLAS MAYO, Ph.D., *Director for Center for Instructional Service and Research*

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MARION F. EMSLIE, Ed.D., *Associate Dean of Students*

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DENNIS E. HEITZMANN, Ph.D., *Director of Center for Student Development*

JOHN W. MCCALL, *Director of Health Programs*

J. THOMAS REEVE, M.S., *Director of Student Relations*

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RONALD W. VIOLETTE, Ph.D., *Director, Campus Recreation and Intramurals*

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BILL WILLIAMS, M.Ed., *Assistant to the Vice President for Business and Finance*

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CHARLES JETTON, B.A., *Director of Administrative and Business Services*

BERGEN S. MERRILL, M.S.C.E., *Director of Physical Plant and Planning*

RAYMOND PIPKIN, M.A., C.P.A., *Director of Finance*

ROBERT S. RUTHERFORD, B.A., *Director of Security and Safety Services*

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O. TERRY FORD, Ed.D., *Director of Administration*

D. WAYNE JONES, Ph.D., *Director of the Center for Nuclear Research*

UNIVERSITY COMMUNITY RELATIONS

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JOE H. DAVIS, Sr., *Consultant*

BEN E. CARTER, B.S., *Director of Alumni Affairs*

ANN DANIEL, B.A., *Assistant Director of Alumni Affairs*

DAVID M. ROBERTS, B.S., *Director of Development*

CAROLYN JONES, *Assistant Director of Development*

GLENDA O'CONNER, *Coordinator of Development Services*

CLARENCE WEISS, Ph.D., *Director of Corporate Relations*

JANE CROWDER, B.F.A., *Director of Art Services*

BRENDA JOBE, B.F.A., *Assistant Director of Art Services*

GILBERT F. MICHAEL, *Director, Photography Services*

SAM LANCASTER, B.S., *Director of Media Relations*

DEBORAH WARRINGTON, B.A., *Assistant Director of Media Relations*

ANN MEFFERT, M.A., *Editorial Assistant*

WILLIAM E. DAVIDSON, J.D., *Director of Publications*

SUSAN CRAWFORD, B.S., *Editor, Alumni Publications*

PAM CROCKER, *Manager, Information Center*

INFORMATION SYSTEMS AND ANALYSIS

DAVID M. VAUGHT, *Director of Information Systems and Analysis*

MARY GARDINER GRUENEWALD, *Director, Institutional Research*

HERMAN G. ROBERTSON, *Director Planning*

FRANKLIN H. FIVEASH, *Director, Systems Development*

RESEARCH AND SERVICES

EDMUND P. SEGNER, JR., Ph.D., *Associate Vice President for Research and Graduate Studies*

NORMAN J. TRENK, M.Ed., *Director, Office of Sponsored Programs*

LINZY D. ALBERT, M.A., *Director, Regional Economic Development Center*

FREDERICK K. BELLOTT, Ed.D., *Director, Bureau of Educational Research and Services*

LEWIS B. COONS, Ph.D., *Director, Electron Microscopy Center*

JOHN GNUSCHKE, Ph.D., *Director, Center for Manpower Studies*

ROGER E. NOLTE, Ph.D., *Director, Bureau of Engineering Research*

LAWRENCE E. LACKEY, Ph.D., *Director, Tennessee Earthquake Information Center*

PAUL R. LOWRY, M.B.A., *Director, Bureau of Business and Economic Research*

ALAN R. THOENY, Ph.D., *Director, Institute of Governmental Studies and Research*

INTERCOLLEGIATE ATHLETICS

BILLY J. MURPHY, B.S., *Athletic Director*

RUFFNER MURRAY, B.S., *Assistant to the Athletic Director*

JACK BUGBEE, *Sports Information Director*

J. W. PATRICK, *Ticket Manager*

THE COLLEGES AND DEPARTMENTS

THE COLLEGE OF ARTS AND SCIENCES

WALTER R. SMITH, Ph.D.,
Dean of the College of Arts and Sciences

J. RALPH RANDOLPH, Ph.D.,
Associate Dean for Public Service and Continuing Education

JAMES FRANKLIN PAYNE, Ph.D.,
Associate Dean

NANCY SIMCO, Ph.D.,
Director of Graduate Studies and Research

BRYCE MOORE SMITH, M.Ed.,
Academic Advisor

BONNIE S. MCGEEHEE,
Graduation Analyst

ANTHROPOLOGY

THOMAS W. COLLINS (1972), *Associate Professor, Chairman*

THOMAS W. COLLINS, Ph.D., *Chairman*
B.S., 1957, Central Michigan University; M.A., 1962, Western Michigan University; M.A., 1967, University of Colorado; Ph.D., 1971, University of Colorado.

NINA L. ETKIN (1977), *Assistant Professor*
B.A., 1970, Indiana University; M.A., 1972, Ph.D., 1975, Washington University.

BILLYE Y. S. FOGELMAN (1975), *Adjunct Assistant Professor*
B.A., 1949, University of Texas; M.A., 1970, Ph.D., 1972, Southern Methodist University.

STANLEY E. HYLAND (1976), *Assistant Professor*
B.A., 1969, M.A., 1970, University of Cincinnati; Ph.D., 1976, University of Illinois.

MONTE RAY KENASTON (1966), *Assistant Professor*
B.S., 1957, University of Texas; M.A., 1966, Washington State University; Ph.D., 1972, Southern Illinois University.

ROBERT D. McCRACKEN (1976), *Assistant Professor*
B.A., 1962, M.A., 1965; Ph.D., 1968, University of Colorado.

CHARLES HARRISON McNUTT (1964), *Professor*
B.S., 1950, University of the South; M.A., 1954, University of New Mexico; Ph.D., 1960, University of Michigan.

DREXEL PETERSON (1970), *Associate Professor*
B.A., 1967, M.A., 1970, Ph.D., 1971, Harvard University.

GERALD P. SMITH (1968), *Adjunct Assistant Professor, Curator of Chucalissa*
B.A., 1963, Southwestern at Memphis; M.A., 1965, University of North Carolina; Ph.D., 1971, University of Missouri.

AUGUSTUS SORDINAS (1967), *Professor*
B.S., 1957, Georgetown University; M.A., 1962, Ph.D., 1968, Harvard University.

BIOLOGY

CARL DEE BROWN, Ph.D., *Chairman*

HAROLD RAMSEY BANCROFT (1962), *Associate Professor*
B.S., 1958, M.S., 1959, Ph.D., 1962, Mississippi State University.

MELVIN L. BECK (1974), *Assistant Professor*
B.S., 1967, Arkansas Tech. College; Ph.D., 1974, University of Arkansas.

CHARLES J. BIGGERS (1969), *Associate Professor*
B.S., 1957, Wake Forest University; M.A., 1959, Appalachian State University; Ph.D., 1969, University of South Carolina.

HARVEY DELANO BLACK (1970), *Assistant Professor*
B.A., 1959, Hendrix College; M.S., 1965, University of Arkansas; Ph.D., 1971, University of Nebraska.

SPURGEON FRANK BOYD (1968), *Associate Professor*
B.S., 1935, Carson-Newman College; M.A., 1947, George Peabody College.

JOE BROOME (1975), *Assistant Professor*
B.S., 1964, Millsaps College; M.S., 1970, Ph.D., 1974, Mississippi State University.

CARL DEE BROWN (1951), *Professor, Chairman*
B.S., 1947, Oklahoma Baptist University; M.S., 1947, Louisiana State University; Ph.D., 1951, Iowa State University.

MARTHA POWELL BROWN (1966), *Assistant Professor*
B.S., 1963, M.S., 1966, Memphis State University.

EDWARD T. BROWNE, JR. (1967), *Professor*
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B.S., 1958, Memphis State University; M.S., 1960, University of Houston; Ph.D., 1966, University of Georgia.

DEWEY BRAY FOLDEN, JR. (1949), *Associate Professor*
B.S., 1947, B.A., 1948, Morris Harvey College; M.S., 1949, West Virginia University.

KENT T. GARTNER (1976), *Associate Professor*
B.S., 1960, Rutgers University; Ph.D., 1965, University of California.

MICHAEL J. HARVEY (1966), *Professor*
B.S., 1958, Eastern Illinois University; M.A., 1962, Stephen F. Austin State College; Ph.D., 1967, University of Kentucky.

CECIL GEORGE HOLLIS (1970), *Professor*
B.S., 1949, M.S., 1951, Ph.D., 1954, University of Alabama.

GOLDEN LEON HOWELL (1961), *Professor*
B.S., 1950, M.S., 1954, Ph.D., 1959, University of Alabama.

JAMES JACOB (1977), *Assistant Professor*
B.S., 1970, M.S., 1972, Stephen F. Austin State University; Ph.D., 1977, University of New Mexico.

MICHAEL L. KENNEDY (1974), *Assistant Professor*
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JOSEPH STANLEY LAYNE (1965), *Associate Professor*
B.S., 1959, Marshall University; M.S., 1961, University of Arkansas; Ph.D., 1964, University of Mississippi Medical Center.

ROBERT W. MCGOWAN (1949), *Professor*
B.A., 1946, Lambuth College; M.A., 1947, George Peabody College.

NEIL AUSTIN MILLER (1968), *Associate Professor*
B.S.F., 1958, Michigan State University; M.S., 1964, Memphis State University; Ph.D., 1968, Southern Illinois University.

VIRGINIA NORTON (1977), *Assistant Professor*
B.S., 1969, M.S., 1970, Ph.D., 1975, Memphis State University.

FRANKLYN D. OTT (1976), *Assistant Professor*
B.S., 1964, Lynchburg College; Ph.D., 1971, University of Kansas.

DONALD D. OURTH (1974), *Assistant Professor*
B.A., 1961, M.A., 1966, University of Northern Iowa; Ph.D., 1969, University of Iowa.

GEORGE WILSON PARCHMAN (1951), *Associate Professor*
B.S., 1948, M.A., 1949, George Peabody College.

JAMES FRANKLIN PAYNE (1968), *Associate Professor, Assistant Dean of the College of Arts and Sciences*
B.S., 1962, University of Tennessee at Martin; M.S., 1965, Memphis State University; Ph.D., 1968, Mississippi State University.

GLEN ERVIN PETERSON (1970), *Professor*
B.A., 1949, Luther College; M.S., 1952, Ph.D., 1954, University of Minnesota.

PRISCILLA RUSHTON (1967), *Associate Professor*
B.A., 1963, Southwestern at Memphis; M.S., 1964, Ph.D., 1967, Emory University.

BILL AL SIMCO (1966), *Professor*
B.S., 1960, College of the Ozarks; M.A., 1962, Ph.D., 1966, University of Kansas.

PAUL RAYMOND SIMONTON (1955), *Associate Professor*
B.S., 1955, M.A., 1961, Memphis State University.

OMAR EWING SMITH (1961), *Professor*
B.S., 1954, Memphis State University; M.S., 1958, Ph.D., 1961, Iowa State University.

WALTER E. WILHELM (1964), *Associate Professor*
A.B., 1955, Harris Teachers College; M.S., 1959, University of Illinois; Ph.D., 1965, Southern Illinois

University.

BYRON HOOPER WISE (1964), *Associate Professor*
B.S., 1950, M.S., 1953, Ph.D., 1962, University of Florida.

CHEMISTRY

JAMES C. CARTER, Ph.D., *Chairman*

HERBERT GRAVES ALLBRITTEN (1963), *Professor*
B.S., 1931, Murray State University; M.S., 1941, University of Kentucky; Ph.D., 1951, Pennsylvania State University.

DONALD RAY BRADY (1973), *Assistant Professor*
B.S., 1962, Brigham Young University; Ph.D., 1970, Cornell University.

JAMES E. BULGER (1973), *Assistant Professor*
B.A., 1964, University of Massachusetts; M.S., 1966, Ph.D., 1970, Purdue University.

JAMES C. CARTER (1974), *Professor, Chairman*
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THE COLLEGE OF BUSINESS ADMINISTRATION

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LEONARD ROSSER, D.B.A.,
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ACCOUNTANCY

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ECONOMICS

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B.S.A., 1947, M.B.A., 1949, University of Texas; Ph.D., 1960, University of Illinois.
- PAUL CASEY GREEN (1976), *Assistant Professor*
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- WILLIAM ROBERT INGRAM (1957), *Assistant Professor*
B.S., 1956, Arkansas Polytechnic College; M.B.A., 1957, University of Arkansas.
- JAMES RICHARD JONES (1976), *Professor*
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- JOHN JOSEPH PEPIN (1970), *Associate Professor*
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- ROBERT NEIL SOUTHERN (1976), *Assistant Professor*
B.A., 1954, M.S., 1957, University of Tennessee.
- CHARLES ROBERT SPINDLER (1950), *Professor*
B.S., 1939, Northeast Missouri State Teachers College; M.A., 1942, University of Iowa.
- HARRY HARMON SUMMER (1961), *Professor*
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- JOHN RUSSELL THOMPSON (1971), *Professor*
B.B.A., 1957, M.B.A., 1958, D.B.A., 1963, University of Washington.
- WAYLAND A. TONNING (1956), *Professor*
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OFFICE ADMINISTRATION

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- JUDITH COMPTON BROWN (1964), *Assistant Professor*
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- NANCY A. DITTMAN (1976), *Assistant Professor*
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- GERALD M. LATHAN (1976), *Instructor*
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- HERMAN F. PATTERSON (1955), *Professor, Chairman*
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- BINFORD H. PEEPLES (1957), *Professor*
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- CHARLES EDWIN REIGEL (1966), *Professor*
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- JUDITH CANFIELD SIMON (1975), *Assistant Professor*
B.S., 1961, Oklahoma State University; M.B.A., 1969, West Texas State University; Ed.D., 1976, Oklahoma State University.
- MALRA CLIFT TREECE (1957), *Associate Professor*
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ART

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- CHARLES DILLARD COLLINS (1973), *Instructor*
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YUKO TAKAHASHI (1976), *Visiting Assistant Professor*
Teacher's Certificate, 1964, Talent Education Institute, Matsumoto, Japan.

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SPEECH AND DRAMA

JOHN H. SLOAN, Ph.D., *Chairman*

DAVID LEE ACEY (1972), *Assistant Professor*
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DAVID L. APPLEBY (1977), *Instructor*
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JOHN PAUL BAKKE (1967), *Professor*
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GLORIA JEAN BAXTER (1965), *Associate Professor*
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MARVIN ROBERT BENSMAN (1969), *Associate Professor*
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MARSHA ELIZABETH GANTT (1976), *Instructor*
B.A., 1967, Mary Washington College of University of Virginia; M.F.A., 1973, University of California-Los Angeles.

ROXANA L. GEE (1976), *Instructor*
B.A., 1971, University of Nebraska; M.A., 1973, Memphis State University.

DON T. HARRIS (1977), *Instructor, Technical Director*
B.A., 1973, Northern State College; M.F.A., 1975, Florida State University.

JOANNA P. HELMING (1976), *Assistant Professor*
B.A., 1963, University of Florida; M.A., 1967, Memphis State University.

JAMES KEITH KENNEDY (1965), *Professor*
B.A., 1957, Southwest Texas State College; M.A., 1958, Ph.D., 1963, University of Florida.

WALTER G. KIRKPATRICK (1977), *Associate Professor, Director of Communication Studies*
B.A., 1967, University of Montana; M.A., 1969, Ph.D., 1974, University of Iowa.

DOUGLAS J. KOERTGE (1975), *Instructor*
B.A., 1964, M.S., 1965, Eastern Illinois University; Ph.D., 1973, University of Illinois.

WILLIAM LEONARD LEE (1976), *Associate Professor*
B.A., 1961, Hope College; M.S., 1962, Bowling Green State University; Ph.D., 1972, University of Wisconsin.

STEPHEN D. MALIN (1964), *Professor*
B.A., 1957, Pennsylvania State University; M.A., 1962, Ph.D., 1968, University of Florida.

JOHN J. McFADDEN, JR. (1973), *Assistant Professor*
B.A., 1969, King's College; M.F.A., 1975, Pennsylvania State University.

MICHAEL McDONALD OSBORN (1966), *Professor*
B.A., 1958, M.A., 1959, University of South Carolina; Ph.D., 1963, University of Florida.

LEA GIBBS QUEENER (1954), *Associate Professor*
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RICHARD R. RANTA (1972), *Associate Professor, Assistant Vice President for Academic Affairs*
B.S., 1965, University of Minnesota; M.A., 1967, Cornell University; Ph.D., 1974, University of Iowa.

NOEL GEORGE RAPP (1954), *Associate Professor*
B.A., 1941, Kent State University; Ph.D., 1955, Purdue University.

RICHARD A. RICE (1977), *Associate Professor, Director of Theatre*
B.A., 1959, University of Denver; M.A., 1961, Columbia University; Ph.D., 1970, University of Utah.

JOHN H. SLOAN (1970), *Professor, Chairman*
B.A., 1954, Marietta College; M.A., 1956, University of Alabama; Ph.D., 1961, University of Illinois.

CRAIG A. SMITH (1976), *Assistant Professor*
B.A., 1971, Baldwin-Wallace College; M.A., 1974, Ph.D., 1976, Purdue University.

HENRY DAVID SWANSON (1968), *Professor*
B.A., 1952, Louisiana State University; M.A., 1957, University of Denver.

DAVID G. YELLIN (1964), *Professor*
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Deen of the College of Education

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Associate Deen

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ELBERT F. NOTHERN, Ed.D.,
Assistant Dean of the College of Education

TERRY L. JAMES, Ed.D.,
Director of Professional Laboratory Experiences

PATRICIA F. CAVENDER, M.A.,
Director of Teacher Certification/Graduate Analyst

JOHN C. CUMMINGS, M.Ed.,
General Advisor

CURRICULUM AND INSTRUCTION

ROGER BENNETT, Ph.D., *Chairman*

LEILA M. ACKLEN (1972), *Assistant Professor*
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ROGER BENNETT (1974), *Associate Professor, Chairman*
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SOPHIA CLARK BROTHERTON (1965), *Assistant Professor*
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BARBARA G. BURCH (1968), *Professor, Associate Dean*
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RONALD W. CLEMINSON (1970), *Associate Professor*
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PATRICIA BOYNE COATS (1969), *Associate Professor*
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DISTRIBUTIVE EDUCATIONC. EDWIN PEARSON, M.S., *Chairman*MARY S. ANDERTON (1971), *Instructor*

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C. EDWIN PEARSON (1966), *Professor, Chairman*
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**GUIDANCE AND PERSONNEL
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B.A., 1964, M.S., 1970, University of Texas; Ph.D., 1975, Southern Illinois University.

JAMES K. MUSKELLEY (1964), *Associate Professor*

B.A., 1949, M.A., 1950, University of Mississippi; Ed.D., 1972, Memphis State University.

ELLEN C. PEETE (1973), *Instructor*

B.S., 1965, Memphis State University; M.Ed., 1968, Memphis State University.

MERRILL MOSELEY POWELL (1966), *Associate Professor*

B.A., 1946, University of Richmond; M.A., 1963, Ed.D., 1966, University of Alabama.

THOMAS ARTHUR RAKES (1972), *Associate Professor*

B.S., 1968, Milligan College; M.A., 1969, East Tennessee State University; Ed.D., 1972, University of Tennessee.

JUNE ROSE RICHIE (1968), *Assistant Professor*

B.A., 1952, Baylor University; M.Ed., 1957, Ed.D., 1972, University of Mississippi.

DENNIE L. SMITH (1971), *Associate Professor*

B.S., 1965, M.A., 1966, Marshall University; Ed.D., 1969, Auburn University.

YVONNE T. SMITH (1966), *Assistant Professor*

B.S., 1961, M.Ed., 1966, Memphis State University; Ed.S., 1972, University of Tennessee.

CHARLES LAMAR THOMPSON (1963), *Professor*

B.A., 1956, M.Ed., 1958, Mississippi College; Ed.D., 1963, University of Southern Mississippi.

JOHN F. THOMPSON (1975), *Assistant Professor*

B.A., 1957, M.A., 1961, Western Reserve University; Ed.D., 1973, Northern Colorado University.

SYLVIA L. TORBET (1963), *Associate Professor*

B.S., 1953, M.Ed., 1955, Louisiana State University; Ed.S., 1963, Ed.D., 1968, George Peabody College.

ROSESTELLE WOOLNER (1970), *Professor*

B.S., 1958, M.A., 1960, Memphis State University; Ed.D., 1966, University of Tennessee.

- RICHARD KEITH JAMES (1977), Assistant Professor**
B.S.E., 1964, M.Ed., 1966, Eastern Illinois University; Ph.D., 1974, Indiana State University.
- JOHN D. JONES (1970), Professor**
B.S.E., 1949, University of Arkansas (Monticello); M.Ed., 1960, University of Arkansas (Fayetteville); Ed.D., 1969, University of Mississippi.
- JOHN R. KAZALUNAS (1975), Assistant Professor**
B.A., 1962, University of Nebraska; M.Ed., 1969, American University; Ed.D., 1973, University of Virginia.
- PATRICIA H. MURRELL (1970), Associate Professor**
B.A., 1956, Millsaps College; M.Ed., 1966, Ed.D., 1968, University of Mississippi.
- JANET ELAINE SCOTT (1977), Assistant Professor**
B.S., 1969, California State College; M.A., 1973, Ph.D., 1976, Ohio State University.
- ALICIA CATHERINE TILLEY (1967), Associate Professor, Dean of Graduate Studies**
B.A., 1941, Southeastern Louisiana College; M.Ed., 1955, University of Texas; Ed.D., 1968, University of Illinois.
- WILLIAM HERBERT WELCH (1969), Associate Professor**
B.S., 1946, Western Michigan University; M.S., 1948, Tulane University; Ed.D., 1969, University of Houston.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

MELVIN A. HUMPHREYS, Re.D.,
Acting Chairman

- DAVID J. ANSPAUGH (1971), Associate Professor**
B.A., 1965, Albion College; M.A., 1967, Eastern Michigan University; P.E.D., 1971, Indiana University.
- LINDA ARNOLD (1976), Women's Athletic Trainer**
B.S., 1975, Murray State; M.S., 1976, Kansas State University.
- LEONARD BRYSON (1963), Associate Professor**
B.S., 1962, Indiana University; M.Ed., 1963, Southern Illinois University; Ed.D., 1974, University of Alabama.
- TERRY BRYSON (1976), Instructor**
B.S., 1966, University of Tennessee; M.Ed., 1967, Memphis State University.
- THOMAS BRIGHT BUFORD, JR. (1966), Men's Tennis Coach**
B.A., 1957, Southwestern at Memphis.
- DONALD J. CHARPIO (1969), Instructor**
B.S., 1968, Northeast Louisiana State College; M.Ed., 1969, Memphis State University.
- JAMES A. COOK (1971), Men's Golf Coach**
B.S., 1968, Memphis State University.
- DARRELL CRASE (1966), Associate Professor**
B.A., 1956, Berea College; M.S., 1958, University of Tennessee; Ph.D., 1966, Ohio State University.
- CHARLES DUNCAN (1976), Instructor**
B.S., 1971, Memphis State University; M.S., 1973, Indiana State University.
- JANICE DUNN (1970), Women's Volleyball and Badminton Coach**
B.S., 1962, University of Tennessee at Martin; M.Ed., 1970, Memphis State University.
- LARRY EDWARDS (1973), Instructor**
B.S., 1966, Erskine College; M.Ed., 1972, Memphis State University.
- EDWARD KING ELLSWORTH (1969), Assistant Professor**
B.A., 1965, Michigan State University; M.S., 1967, University of Tennessee; Ed.S., 1974, University of Mississippi.
- RICHARD DENNIS FADGEN (1968), Swimming Coach**
B.S., 1959, North Carolina State University; M.S., 1961, Appalachian State University.
- CAROLYN THORPE FURR (1964), Assistant Professor**
B.S., 1961, Longwood College; M.S., 1962, University of Tennessee.
- ANGELA GARCIA (1976), Women's Gymnastic Coach**
B.S., 1972, Eastern Michigan University; M.S., 1978, Central Michigan University.
- DONALD P. HALDIMANN (1977), Instructor**
B.S., 1976, M.A., 1977, Murray State University.
- MICHAEL H. HAMRICK (1967), Associate Professor**
B.S., 1966, M.Ed., 1967, Memphis State University; Ed.D., 1973, University of Tennessee.
- GLENN T. HAYS (1970), Men's Track Coach**
B.A., 1967, Southwestern University; M.Ed., 1972, Memphis State University.
- NANCY HEPNER (1976), Instructor**
B.S., 1974, M.S., 1975, Illinois State University.
- JANE HOWLES HOOKER (1969), Assistant Professor**
B.S.E., 1968, M.E., 1969, Memphis State University; Ed.S., 1974, University of Mississippi.
- MELVIN A. HUMPHREYS (1962), Associate Professor, Acting Chairman**
B.S., 1959, B.S., 1961, University of Tennessee; M.A., 1962, Memphis State University; Re.D., 1973, Indiana University.
- FLORENCE V. ILLING, R.N. (1951), Assistant Professor**
G.N., 1936, Medical College of South Carolina; B.S., 1950, George Peabody College; M.A., 1953, Memphis State University.
- MARY LOU JOHNS (1970), Women's Basketball Coach**
B.S., 1964, M.Ed., 1969, Memphis State University.
- ROBERT KILPATRICK (1971), Men's Baseball Coach**
B.S., 1962, University of Mississippi.
- HARRIETTE JOAN LAVENUE (1967), Assistant Professor**
B.S., 1960, University of Tennessee at Martin; M.S., 1961, University of Tennessee.
- LAWRENCE E. LILES (1975), Instructor**
B.S., 1974, M.S., 1975, Memphis State University.
- ROBERT W. MCKINLEY (1977), Instructor**
B.S., 1976, M.S., 1977, University of Southern Mississippi.
- CHARLES J. MAZZONE (1977), Instructor**
B.S., 1971, M.Ed., 1972, Memphis State University.
- CURTIS MIZE (1973), Instructor**
B.S., 1970, Austin Peay State University; M.Ed., 1974, Memphis State University.
- BETTY HULL OWEN (1959), Assistant Professor**
B.S., 1956, Memphis State University; M.P.E., 1960, Purdue University.
- CAROL LYNN PARKES (1977), Instructor, Women's Golf Coach**
B.S., 1973, University of Alabama; M.S., 1976, Memphis State University.
- CHARLOTTE PETERSON (1975), Women's Tennis Coach**
B.S., 1972, M.Ed., 1974, Memphis State University.
- JOSEPH PAUL PRICE (1967), Associate Professor**
B.S., 1966, M.S., 1974, Memphis State University; Re.Dir., 1971, R.Ed., 1972, Indiana University.
- FRANK ROSATO (1973), Assistant Professor**
B.S., 1965, Troy State University; M.Ed., 1966, Ed.D., 1973, University of Tennessee.
- SUSAN K. RUSS (1970), Women's Track Coach**
B.S., 1965, M.A., 1966, Murray State University.
- CHARLES ROY SCHROEDER (1968), Associate Professor**
B.Ed., 1960, University of Miami; M.S., 1964, Ph.D., 1968, Florida State University.
- E. B. SCOTT, JR. (1955), Professor**
B.A., 1947, M.A., 1948, Colorado State College; H.S.D., 1953, P.E.D., 1954, Indiana University.
- GEDDES SELF, JR. (1968), Assistant Professor**
B.A., 1960, M.A., 1961, Memphis State University.

- FRANK UNRUH SIMONTON (1968), Assistant Professor**
B.S., 1961, M.A., 1962, Memphis State University.
- A. EUGENE SMITH (1960), Assistant Professor, Men's Athletic Trainer**
B.S., 1949, Sterling College; M.S., 1954, Indiana University.
- ELIJAH VANCE TURMAN (1965), Assistant Professor**
B.S., 1960, University of Tennessee at Martin; M.A., 1962, Morehead State University.
- SHARON L. VAN OTEGHEN (1977), Assistant Professor**
B.A., 1961, M.A., 1968, University of Iowa; P.E.D., 1973, Indiana University.
- MICHELE VARON (1976), Instructor**
B.S., 1970, SUC-Brockport; M.A., 1976, New York University.
- WILLIAM WALLACE (1977), Instructor**
B.S., 1971, Ball State University; M.Ed., 1977, Memphis State University.

HOME ECONOMICS

MARQUITA LaDORE IRLAND, Ed.D.,
Chairman

- DIXIE RUTH CRASE (1966), Associate Professor**
B.S., 1959, Eastern New Mexico University; M.S., 1960, Kansas State University; Ph.D., 1967, Ohio State University.
- MARY W. CROCKER (1974), Professor**
B.S.E., 1961, Delta State College; M.A., 1963, University of Mississippi; Ph.D., 1968, Florida State University.
- MARY L. DUNDAS, Instructor**
B.S., 1966, University of Minnesota; M.A.T., 1970, Antioch College.
- LUCILLE GOLIGHTLY (1973), Associate Professor**
B.S., 1943, Auburn University; M.S., 1955, University of Tennessee; Ph.D., 1973, Utah State University.
- WANDA H. HARTMAN (1972), Instructor**
B.S., 1964, M.S., 1967, Mississippi State College for Women.
- MARQUITA LaDORE IRLAND (1967), Professor, Chairman**
B.S., 1942, M.A., 1947, Michigan State University; Ed.D., 1956, Wayne State University.
- HELEN CLEOLA R. NUNN (1968), Professor**
B.S., 1941, University of Arkansas at Pine Bluff; M.S., 1954, Ph.D., 1966, Cornell University.
- LADA MOORE SANDS (1951), Assistant Professor**
B.S., 1939, M.S., 1957, Memphis State University.
- PATRICIA M. STEVENS (1977), Instructor**
B.S., 1968, University of Tennessee, Martin; M.S., 1972, Indiana State University.
- LAURA L. TERRILL, Assistant Professor**
B.S., 1957, Ouchita Baptist University; M.S., 1961, Pennsylvania State University; Ed.D., 1975, Auburn University.
- JULIA EUBANKS THOMPSON (1965), Assistant Professor**
B.S., 1955, M.A., 1957, University of Southern Mississippi.
- DELPHIA E. WYATT (1973), Assistant Professor**
B.S., A.D.A., 1970, M.S., 1971, Tuskegee.

LIBRARY SERVICE

EVELYN GEER CLEMENT, Ph.D., Chairman

- EVELYN GEER CLEMENT (1972), Associate Professor, Chairman**
B.A., 1965, Tulsa University; M.L.S., 1966, University of Oklahoma; Ph.D., 1975, Indiana University.
- MILLICENT A. LENZ (1975), Assistant Professor**
B.A., 1959, Luther College; M.A., 1961, University of Kansas; M.A., 1965, University of Wisconsin; Ph.D., 1974, Northern Illinois University.
- RAMONA MADSON MAHOOD (1964), Assistant Professor**
B.S., 1955, Utah State University; M.S., 1959, C.A.S., 1971, University of Illinois.

SPECIAL EDUCATION AND REHABILITATION

WILSON L. DIETRICH, Ed.D., *Chairman*

ROBERT M. ANDERSON (1973), *Professor*
B.S., 1958, Slippery Rock State College; M.A., 1960, Bradley University; Ed.D., 1965, University of Pittsburgh.

CLARENCE D. BROWN (1976), *Instructor*
B.S., 1970, Troy State; M.Ed., 1976, Auburn University.

LINDA D. CRIDER (1975), *Instructor*
B.S.E., 1967, M.S.E., 1968, State College of Arkansas.

CHARLENE DeLOACH (1975), *Assistant Professor*
B.S., 1965, M.Ed., 1966, Ph.D., 1971, University of Illinois.

WILSON L. DIETRICH (1971), *Professor, Chairman*
B.S., 1958, Slippery Rock State College; M.A., 1964, Appalachian State University; Ed.D., 1967, University of Alabama.

BOBBY GENE GREER (1967), *Professor*
B.S., 1960, North Texas State University; M.Ed., 1969, University of Arkansas; Ph.D., 1965, University of Texas.

BONNIE ROBERTS GREER (1974), *Assistant Professor*
A.B., 1968, Indiana University; M.Ed., 1969, Ph.D., 1971, Oklahoma University.

JOHN B. GREER (1974), *Assistant Professor*
B.A., 1967, M.Ed., 1971, University of Delaware; Ph.D., 1974, Pennsylvania State University.

CLARISSA JANE HARRISON (1975), *Instructor*
B.S., 1967, East Tennessee State University; M.Ed., 1973, Memphis State University.

HELEN B. JACOBY (1975), *Assistant Professor*
B.S., 1943, Delta State College; M.S., 1957, Syracuse University; Ed.D., 1970, University of Virginia.

WILLIAM M. JENKINS (1971), *Associate Professor*
B.S., 1959, Florida State University; M.A., 1965, Ed.D., 1972, University of Alabama.

JOHN T. JOHNSON, JR. (1975), *Assistant Professor*
B.A., 1960, George Williams College; M.Ed., 1969, Ph.D., 1971, University of Georgia.

WELLINGTON MOCK (1976), *Assistant Professor*
B.A., 1966, Pepperdine University; M.A., 1972, California State University; Ed.D., 1974, University of Southern California.

THOMAS L. PORTER (1975), *Professor*
B.S., 1957, M.Ed., 1958, Texas Technological University; Ph.D., 1964, University of Missouri.

ALTON DAVID QUICK (1970), *Professor*
A.B., 1960, M.Ed., 1962, Birmingham Southern College; Ed.D., 1966, University of Alabama.

HOBERT LYNDALL RICH (1969), *Associate Professor*
B.A., 1958, M.A., 1961, University of Kentucky; Ph.D., 1969, Syracuse University.

JOHN W. SCHIFANI (1971), *Associate Professor*
B.A., 1958, Nicholls State University; M.S.W., 1960, Louisiana State University; Ed.D., 1971, University of Alabama.

IRISE SCHWARTZBERG (1975), *Instructor*
B.A., 1971, M.A., 1973, Eastern Michigan University.

MARILYN SMITH (1975), *Instructor*
B.S., 1968, Western Illinois University; M.A., 1972, George Peabody College for Teachers.

MARION R. THOMPSON (1971), *Associate Professor*
B.S., 1960, M.S., 1961, Southern Illinois University; Ed.D., 1970, Illinois State University.

ANNE C. TROUTMAN (1977), *Assistant Professor*
B.S.Ed., 1964, University of Georgia; M.Ed., 1970, Ph.D., 1977, Georgia State University.

RONNIE D. WILKINS (1976), *Instructor*
B.A., 1970, Ouachita Baptist University; M.S., 1975, University of Central Arkansas.

HERFF COLLEGE OF ENGINEERING

ROGER E. NOLTE, Ph.D.,
Dean of the Herff College of Engineering

FREDERICK W. SWIFT, Ph.D.,
Associate Dean

JOHN RAY, Ph.D.,
Director of Graduate Studies and Research

CAROL LEE FERGUSON, M.Ed.,
College Level Adviser

CIVIL ENGINEERING

THOMAS SAMUEL FRY, Ph.D., *Chairman*

JERRY LEE ANDERSON (1972), *Assistant Professor*
B.S.C.E., 1966, Tennessee Technological University; M.S.C.E., 1967, Ph.D., 1972, Vanderbilt University.

THOMAS SAMUEL FRY (1969), *Professor, Chairman*
B.S.C.E., 1950, M.S.C.E., 1953, Ph.D., 1959, University of Illinois.

KENNETH M. HALL (1970), *Professor*
B.S.C.E., 1962, M.S.C.E., University of Arkansas; Ph.D., 1969, Arizona State University.

MARTIN E. LIPINSKI (1975), *Associate Professor*
B.S.C.E., 1964, Univ. of Illinois; Certificate in Traffic Engr., 1965, Yale; M.S.C.E., 1966, Ph.D., 1972, Univ. of Illinois.

EDMUND P. SEGNER, JR. (1976), *Professor*
B.S.C.E., 1949, M.S.C.E., 1952, University of Texas; Ph.D., 1962, Texas A & M University.

WILLIAM T. SEGUI (1968), *Associate Professor*
B.S.C.E., 1960, M.S., 1965, Ph.D., 1971, University of South Carolina.

JOHN WARREN SMITH (1970), *Professor*
B.S.C.E., 1965, M.S.C.E., 1967, Ph.D., 1968, University of Missouri (Rolla).

TZE SUN WU (1964), *Professor*
B.S., 1941, National Chiao-Tung University; M.S., 1949, University of Washington; Ph.D., 1952, University of Illinois.

ELECTRICAL ENGINEERING

THOMAS DEWEY SHOCKLEY, JR., Ph.D.,
Chairman

CHARLES WILSON BRAY (1969), *Associate Professor*
B.S., 1960, M.S., 1961, Mississippi State University; Ph.D., 1969, University of Tennessee.

CARL EDWIN HALFORD (1970), *Associate Professor*
B.S.E.E., 1966, M.S.E.E., 1967, Ph.D., 1970, University of Arkansas.

ROBERT JOSEPH HIRKO (1975), *Assistant Professor*
B.S.E.E., 1969, M.S.E.E., 1971, Ph.D., 1974, Carnegie-Mellon University.

WILLIAM HOWARD JERMANN (1967), *Professor*
B.E.E., 1958, M.A., 1962, University of Detroit; Ph.D., 1967, University of Connecticut.

CHARLES F. MORRIS, JR. (1970), *Associate Professor*
B.E.E., 1964, M.S.E.E., 1965, Ph.D., 1970, Georgia Institute of Technology.

ROGER EMERSON NOLTE (1969), *Professor, Dean of the Herff College of Engineering*
B.S.E.E., 1943, M.S.E.E., 1948, Ph.D., 1955, Iowa State University.

THOMAS DEWEY SHOCKLEY, JR. (1967), *Professor, Chairman*
B.S.E.E., 1950, M.S.E.E., 1952, Louisiana State University; Ph.D., 1963, Georgia Institute of Technology.

ENGINEERING TECHNOLOGY

WESTON TERRELL BROOKS, D.Ed., *Director*

WESTON TERRELL BROOKS (1967), *Professor, Director*
B.S., 1961, M.Ed., 1962, Sam Houston State College; D.Ed., 1964, Texas A & M University.

WILLIAM A. BROTHERTON (1948), *Professor, Director of Extended Programs-Office of Public Service and Cont. Education*
B.S., 1948, Memphis State University; M.A., 1951, George Peabody College; Ed.D., 1964, Colorado State College.

CHARLES RICHARD COZZENS (1968), *Associate Professor*
B.S., 1953, Texas A&M University; M.Ed., 1960, Southwest Texas State College; D.Ed., 1965, Texas A&M University.

KENNETH DALE CREMER (1969), *Professor, Chairman, Electrical, Structural and Educational Technologies; Director of Graduate Studies*
B.S., 1956, M.A., 1960, Murray State University; Ed.D., 1970, Utah State University.

GLEN W. DAVIS (1968), *Assistant Professor*
B.S., 1966, Memphis State University; M.S., 1974, Murray State University.

RONALD LEE DAY (1973), *Assistant Professor*
B.S., 1967, M.A., 1970, Western Kentucky University.

S. LEON FELKINS (1976), *Assistant Professor*
B.S.E.E., 1962, M.S.E.E., 1962, University of Washington.

NORRIS R. GABRIEL (1964), *Assistant Professor*
B.S., 1951, Clemson University; M.S., 1973, Memphis State University.

LUNCEFORD PIERCE GILLENLINE (1967), *Assistant Professor*
B.S., 1941, University of Mississippi; M.Ed., 1967, Memphis State University.

GEORGE GLYN HITT (1966), *Associate Professor*
B.S., 1960, M.Ed., 1966, Mississippi State University; D.Ed., 1974, Texas A&M University.

CHARLES HILTON HOPPER (1966), *Associate Professor*
B.S., 1955, M.S., 1956, Florida State University; Ph.D., 1971, Florida State University.

STEPHEN P. LANGA (1970), *Professor*
B.E.M., 1950, Ohio State University; Ph.D., 1944, Slovak University.

THOMAS EUGENE MASON (1973), *Assistant Professor*
B.S.C.E., 1969, Michigan Technological University; M.A., Ed., 1972, Western Michigan University.

ROBERT E. MAGOWAN (1967), *Professor, Chairman, Manufacturing and Graphical Technologies*
B.S., 1960, M.A., 1961, Eastern Kentucky University; Ed.D., 1967, Texas A&M University.

JAMES KELLY METZGER (1976), *Assistant Professor*
B.A., 1966, University of Vermont; M.S., 1971, Memphis State University.

KEVIN S. MUNROE (1975), *Assistant Professor*
B.A., 1971, University of Pennsylvania; M. Arch., 1975, University of New Mexico.

BRUNO WALTER STRACK (1976), *Assistant Professor*
B.S.M.E., 1947, State Engineering College, Hagen, West Germany; B.A., Auburn University.

ARTHUR J. SWEAT (1973), *Assistant Professor*
B.S.E.E., 1962, University of Washington, M.S., 1972, Memphis State University.

ALAN RAYMOND TERRIL (1976), *Assistant Professor*
B.S.M.E., 1955, M.Engr., 1961, Pennsylvania State University.

JAMES NELSON YADON (1976), *Associate Professor*
B.S., 1954, M.S., 1957, Ph.D., 1974, Florida State University.

GEOLOGY

RICHARD WILLIAM LOUNSBURY, Ph.D.,
Chairman

- PHILIP B. DEBOO (1965), *Professor*
B.S., 1953, University of Bombay; M.S., 1955,
Ph.D., 1963, Louisiana State University.
- ROBERT WADE DEININGER (1966), *Professor*
B.S., 1950, M.S., 1957, University of Wisconsin;
Ph.D., 1964, Rice University.
- LAURENCE E. LACKEY (1975), *Assistant*
Professor
B.S., 1969, Principia College; Ph.D., 1974, Uni-
versity of Michigan.
- RICHARD WILLIAM LOUNSBURY (1968),
Professor, Chairman
B.S., 1941, University of Chicago; Ph.D., 1951,
Stanford University.
- DAVID NORMAN LUMSDEN (1967), *Professor*
B.A., 1958, M.A., 1960, State University of New
York at Buffalo; Ph.D., 1965, University of Illinois.
- PRADIP KUMAR SEN GUPTA (1966), *Associate*
Professor
B.Sc., 1956, University of Calcutta; M.Sc., 1958,
Jadavpur University; M.Tech., 1960, Indiana In-
stitute of Technology; Ph.D., 1964, Washington
University.

MECHANICAL ENGINEERING

JOHN D. RAY, Ph.D., *Acting Chairman*

- WILLIAM LEO AMMINGER (1966), *Professor*
Diplom-Ingenieur, 1952, Technical University of
Vienna; D.Sc., 1964, Washington University.
- DONALD E. BRAY (1977), *Assistant Professor*
B.S., 1961, Southern Methodist University; M.S.,
1969, University of Houston; Ph.D., 1976, University
of Oklahoma.
- JAMES A. LIBURDY (1976), *Assistant Professor*
B.S., 1971, Cornell University; M.S., 1974, Stan-
ford University; Ph.D., 1976, Pennsylvania State
University.
- EDWARD H. PERRY (1970), *Associate Professor*
B.S., 1966, M.S., 1967, Ph.D., 1970, California In-
stitute of Technology.
- JOHN D. RAY (1968), *Professor, Acting Chairman*
B.S., 1956, M.S., 1957, University of Illinois; Ph.D.,
1968, University of Oklahoma.

UNIVERSITY COLLEGE

- ROBERT J. HATALA, Ph.D.,
Dean of University College
- H. GRADEN KIRKSEY, Ph.D.,
Acting Associate Dean
- SUSANNE B. DARNELL, M.A.,
Assistant to the Dean

**INDEPENDENT DEPARTMENTS
AND PROGRAMS****AEROSPACE STUDIES**

LT. COLONEL WILLIAM F. CORROUM, M.S.,
Professor of Aerospace Studies

- WILLIAM F. CORROUM (1975), Lt.Col., United
States Air Force; *Professor*
B.S., 1959, United States Naval Academy; M.S.,
1974, George Washington University.
- ARTHUR D. HARTENSTEINE (1977), Captain,
United States Air Force; *Assistant Professor*
B.A., 1972, M.P.A., 1975, Golden Gate University.
- WILLIE C. REGISTER (1976), Captain, United
States Air Force; *Assistant Professor*
B.S., 1967, M.S., 1976, Memphis State University.
- ROBERT F. WELLMAN (1977), Captain, United
States Air Force; *Assistant Professor*
B.B.A., 1970, Notre Dame; M.B.A., 1975, University
of Utah.

NURSING

LOIS HOLLOMON, M.S.N., *Chairman*

- MARY JOYCE BELL (1969), *Assistant Professor*
B.S.N., 1954, University of Tennessee; M.Ed.,
1972, Memphis State University.
- SUE KILLOUGH CONNER (1972), *Assistant*
Professor
B.S.N., 1956, University of Tennessee; M.Ed., 1973,
Memphis State University.
- HILDA JOAN DODSON (1967), *Assistant*
Professor
B.S.N., 1957, University of Tennessee; M.Ed., 1969,
Memphis State University.
- SHIRLEY EDEN-KILGOUR (1973), *Assistant*
Professor
B.S.N., 1972, M.S.N., 1973, Boston University.
- BRITT G. FINLEY (1970), *Instructor*
B.S.N., 1968, University of Tennessee; M.Ed., 1975,
Memphis State University.
- SANDRA HANLEN (1975), *Instructor*
B.S.N., 1971, M.S.N., 1973, St. Louis University.
- LOIS HOLLOMON (1968), *Associate Professor,*
Chairman
B.S.N., 1961, University of Tennessee; M.S.N.,
1968, University of Alabama.
- KATHERINE K. KIM (1974), *Assistant Professor*
B.S.N., 1959, Hardwick College; M.Ed., 1961, Uni-
versity of Minnesota.
- JANE LeVAUGHN (1975), *Assistant Professor*
B.S.N., 1951, University of Tennessee; M.Ed., 1974,
Memphis State University.
- PATRICIA V. LYNCH (1971), *Assistant Professor*
B.S.N., 1968, Boston College; M.Ed., 1972, Mem-
phis State University.
- SARAH MYNATT (1974), *Assistant Professor*
B.S.N., 1962, M.S.N., 1974, University of Tennes-
see.
- BRENDA JOYCE PARHAM (1972), *Assistant*
Professor
B.S.N., 1966, Florida A&M University; M.Ed., 1972,
Memphis State University.
- DONNA WALKER PATSCHKE (1972), *Instructor*
B.S.N., 1968, University of Tennessee.
- CATHERINE L. PFEIFFER (1973), *Instructor*
B.S.N., 1973, University of Tennessee.
- PATRICIA REINAGEL (1975), *Instructor*
B.S.N., 1974, Memphis State University; M.S.N.,
1975, University of Tennessee.
- PATRICIA ANN RIDDLE (1972), *Assistant*
Professor
B.S.N., 1965, University of Iowa; M.Ed., 1972, Mid-
dle Tennessee State University.
- PRISCILLA DIANE SADLER (1971), *Assistant*
Professor
B.S.N., 1968, Texas Women's University; M.Ed.,
1973, Memphis State University.
- CATHERINE TANZER (1974), *Assistant*
Professor
B.S.N., 1951, Syracuse University; M.N., 1973, Uni-
versity of Alabama.
- MYRA TILLIS (1975), *Instructor*
B.S.N., 1973, University of Tennessee.
- ELIZABETH TONKIN (1976), *Instructor*
B.S.N., 1970, Skidmore College.
- DOROTHY G. WHEAT (1969), *Assistant Professor*
B.S.N., 1955, University of Tennessee.

LIBRARIES

- LESTER J. POURCIAU, JR., Ph.D., *Director*
- HARRIET SEMMES ALEXANDER (1977),
Instructor
B.A., 1971, Arkansas State University; M.A., 1972,
Memphis State University; M.L.A., 1974, University
of Illinois.
- RITA BROADWAY (1975), *Assistant Professor*
B.A., 1965, Northeast Louisiana University; M.S.L.S.,
1971, Louisiana State University.
- KIT S. BYUNN (1973), *Assistant Professor*
B.A., 1962, National Chengchi University; M.A.,
1967, Appalachian State University.

- DEBORAH DELLINGER (1973), *Instructor*
B.A., 1971, Southwestern at Memphis; M.L.S., 1973,
George Peabody College.
- BARBARA ANN DENTON (1974), *Assistant*
Professor
B.A., 1961, University of Southern Mississippi; M.S.,
1964, Louisiana State University.
- JEANETTE MARIE DRONE (1969), *Associate*
Professor
B.S., 1962, George Peabody College; M.M., 1965,
University of Michigan; M.L.S., 1969, George Pea-
body College.
- IAN M. EDWARD (1973), *Assistant Professor*
B.A., 1968, M.S., 1972, Florida State University.
- DONNA MARTIN GAMBILL (1973), *Assistant*
Professor
B.A., 1972, Memphis State University; M.S., 1973,
Louisiana State University.
- WILMA PALMER HENDRIX (1967), *Assistant*
Professor
B.S., 1961, Memphis State University; M.L.S., 1966,
George Peabody College.
- VIRGINIA HOWELL INGRAM (1966), *Assistant*
Professor
B.A., 1936, Bethel College; M.A., 1956, George
Peabody College.
- CLAIR S. JOSEL (1971), *Instructor*
B.A., 1963, Newcomb College; M.S., 1965, Louisiana
State University.
- ELEANOR McKAY (1976), *Assistant Professor*
B.A., 1967, University of Maryland; M.A., 1969,
M.A., 1975, University of Wisconsin.
- ROSANNE MOORE (1975), *Instructor*
A.B., 1974, University of Georgia; M.L.S., 1975,
George Peabody College.
- ANGELA GIARDINA MULLIKIN (1967), *Assistant*
Professor
B.S., 1941, New York State University at Geneseo;
M.S., 1954, Columbia University.
- PAMELA RAE PALMER (1973), *Assistant*
Professor
B.A.E., 1970, University of Mississippi; M.S., 1972,
Louisiana State University.
- LESTER J. POURCIAU, JR. (1970), *Professor,*
Chairman
B.A., 1962, M.S., 1964, Louisiana State University;
Ph.D., 1975, Indiana University.
- MARION DOUGLAS SANDIFER (1972),
Assistant Professor
B.A., 1951, Mississippi College; M.S., 1952, Uni-
versity of Illinois.
- ALVA WARE STEWART (1977), *Associate*
Professor
A.B., 1953, University of North Carolina; M.A., 1955,
Duke University; M.S.L.S., 1960, University of North
Carolina.
- BOB H. T. SUN (1974), *Assistant Professor*
B.A., 1964, Taiwan Cheng Kung University; M.A.,
1969, Northern Illinois University; M.A., 1972, Wes-
tern Kentucky University.
- PATRICIA LEE THORNBERRY (1973), *Instructor*
B.A., 1971, Memphis State University; M.L.S.,
1973, George Peabody College.
- ODIE HENDERSON TOLBERT, JR. (1969),
Assistant Professor
B.A., 1962, LeMoine-Owen College; M.A., 1969,
Northern Illinois University; Advanced Certificate
Black Studies Librarianship, 1973, Fisk University.
- THOMAS W. TULLOS (1969), *Assistant Professor*
B.A., 1943, Arkansas State University; M.A., 1953,
George Peabody College.
- HELEN TURNER (1966), *Assistant Professor*
B.S.E., 1944, State College of Arkansas; M.A.,
1955, M.A., 1963, George Peabody College.
- RELETHA J. UPTON (1976), *Assistant Professor*
B.A., 1964, Southern State College; M.L.S., 1965,
University of Oklahoma.
- CELIA JO WALL (1974), *Assistant Professor*
B.A., 1971, Murray State University; M.S., 1974,
University of Illinois.
- MARY EDITH WALKER (1975), *Assistant*
Professor
B.A., 1965, Millsaps College; M.Ln., 1969, Emory
University.

CAROL E. WARNOCK (1973), *Assistant Professor*
B.A., 1968, University of Arkansas; M.A., 1972,
University of Missouri.
MARIE B. WHITE (1967), *Instructor*
B.A., 1946, Maryville College; B.S., 1947, George
Peabody College.

AUDIOLOGY AND SPEECH PATHOLOGY

DANIEL S. BEASLEY, Ph.D., *Chairman*

DANIEL S. BEASLEY, *Professor*
Ph.D., 1970, University of Illinois.
GERARD CHOLLET, *Assistant Professor*
Ph.D., 1976, University of California.
ALBYN DAVIS, *Assistant Professor*
Ph.D., 1972, Ohio University.
JOHN A. IRWIN, *Assistant Professor*
M.A., 1950, Western Reserve University.
JOHN V. IRWIN, *Pope M. Farrington Professor*
Ph.D., 1947, University of Wisconsin.
JOEL C. KAHANE, *Assistant Professor*
Ph.D., 1975, University of Pittsburgh.
LAURENCE B. LEONARD, *Assistant Professor*
Ph.D., 1973, University of Pittsburgh.
ERNEST J. MOORE, *Associate Professor*
Ph.D., 1971, University of Wisconsin.
LOUISE M. WARD, *Associate Professor*
M.A., 1951, University of Alabama.

DAVID J. WARK, *Associate Professor*
Ph.D., 1971, Indiana University.

ELIZABETH J. WEBSTER, *Professor*
Ph.D., 1961, Columbia University.

NANCY ALLEN, *Instructor*
M.A., 1973, University of Tennessee.

BRENDA COLE, *Instructor*
M.A., 1975, Memphis State University.

JAN COVINGTON, *Instructor*
M.A., 1971, Memphis State University.

BETTY CUTTS, *Instructor*
M.S., 1969, Vanderbilt University.

ANN DANIEL, *Instructor*
M.A., 1968, University of Alabama.

BETTY FARBER, *Instructor*
M.Ed., 1976, Memphis State University.

LAURA GOEPFERT, *Instructor*
M.A., 1975, Memphis State University.

H. STEPHENSON HARMON, *Instructor*
M.S., 1973, University of Montevallo.

SALLIE HILLIARD, *Instructor*
M.A., 1970, Vanderbilt University.

BERNARD MANZY, *Instructor*
M.A., 1976, Purdue University.

HAROLD PRICE, *Instructor*
M.A., 1973, Memphis State University.

BRENDA TERRELL, *Instructor*
M.A., 1973, Memphis State University.

PLANNING

LINZY ALBERT, M.A., *Chairman*

LINZY D. ALBERT (1967), *Associate Professor,
Chairman, Director of Regional Economic
Development Center*
B.A., 1950, M.A., 1951, Vanderbilt University.

JOHN M. DUGAN (1974), *Adjunct Assistant
Professor*
M.C.P., 1971, Harvard University.

PHILIP MUMMERT (1975), *Assistant Professor,
Planning and Development Counselor,
Regional Economic Development Center*
B.A., 1966, M.S. Urban and Regional Planning,
1968, Ph.D., 1972, University of Wisconsin.

EARL EUGENE PEARSON, JR. (1971), *Assistant
Professor, Planning and Development
Counselor, Regional Economic Development
Center*
B.P.A., 1966, M.U.P., 1971, University of Missis-
sippi.

WILLIAM S. POLLARD, JR. (1971), *Adjunct
Professor*
M.S., Civil Engineering, 1948, Purdue University.

SUBBARAYAN PRASANNA (1975), *Assistant
Professor, Planning and Development
Counselor, Regional Economic Development
Center*
B.A., Architecture, 1962, M.U.P., 1969, Ph.D., 1975,
University of Washington.

1979-80 Tentative Calendar

Tentative Calendar for 1979-80

This calendar is tentative, and students should check the 1979-80 BULLETIN and the SCHEDULE OF CLASSES for possible changes or additions.

FALL-SEMESTER 1979

AUGUST 20, MONDAY through

AUGUST 23, THURSDAY

Off-campus Registrations (Exact dates, times, locations to be announced prior to registration)

AUGUST 23, THURSDAY

Meeting of the new members of the University faculty, University Center Ballroom, 9:00 A.M.

AUGUST 24, FRIDAY

Meeting of the entire University faculty, University Center Ballroom, 9:00 A.M., followed by meetings by colleges and departments

AUGUST 25, SATURDAY

Registration—The Graduate School

AUGUST 27, MONDAY through

AUGUST 29, WEDNESDAY

Registration Week—For detailed dates and times, see The Bulletin (Schedule of Classes) for the Fall semester, 1979

AUGUST 30, THURSDAY

Classes meet as scheduled

SEPTEMBER 3, MONDAY

Holiday—Labor Day

SEPTEMBER 6, THURSDAY

Last day for adding courses

Last day for making application to the Dean of the Graduate School for degrees to be conferred in December, 1979. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

SEPTEMBER 18, TUESDAY

Last day for removing Summer Session "Incomplete" grades

OCTOBER 5, FRIDAY

Class Break (Classes will not meet)

OCTOBER 19, FRIDAY

Last day for **all** students to drop courses

Last day for all **undergraduate** students to withdraw from the University

NOVEMBER 6, TUESDAY

Last day for all **graduate** students to withdraw from the University

NOVEMBER 21, WEDNESDAY

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in May, 1980

NOVEMBER 22, THURSDAY through

NOVEMBER 25, SUNDAY

Holiday—Thanksgiving

DECEMBER 6, THURSDAY

Study Day

DECEMBER 7, FRIDAY

Final Examinations begin

DECEMBER 15, SATURDAY

Commencement

SPRING SEMESTER 1980

JANUARY 8, TUESDAY through

JANUARY 11, FRIDAY

Off-campus Registrations (Exact dates, times, locations to be announced prior to registration)

JANUARY 12, SATURDAY

Registration—The Graduate School

JANUARY 14, MONDAY through

JANUARY 16, WEDNESDAY

Registrar Week—For detailed dates and times, see the Bulletin (Schedule of Classes) for the Spring Semester, 1980

JANUARY 17, THURSDAY

Classes meet as scheduled

JANUARY 23, WEDNESDAY

Last day for adding courses

Last day for making application to the Dean of the Graduate School for degrees to be conferred in May, 1980. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

FEBRUARY 5, TUESDAY

Last day for removing Fall Semester "Incomplete" grades

MARCH 7, FRIDAY

Last day for **all** students to drop courses

Last day for all **undergraduate** students to withdraw from the University

MARCH 16, SUNDAY through

MARCH 23, SUNDAY

Spring Holidays

APRIL 2, WEDNESDAY

Last day for all **graduate** students to withdraw from the University

APRIL 16, WEDNESDAY

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in August, 1980

MAY 1, THURSDAY

Study Day

MAY 2, FRIDAY

Final Examinations begin

MAY 10, SATURDAY

Commencement

PRE-SUMMER SESSION 1980

MAY 12, MONDAY

Registration

MAY 13, TUESDAY

Classes meet as scheduled

Last day for late registration

MAY 21, WEDNESDAY

Last day for **all** students to drop courses

Last day for all **undergraduate** students to withdraw

1979-80 Tentative Calendar

MAY 23, FRIDAY

Last day for all **graduate** students to withdraw

MAY 30, FRIDAY

Final Examinations

FIRST SUMMER TERM 1980

JUNE 3, TUESDAY through

JUNE 4, WEDNESDAY

Registration—For detailed dates and times, see the Bulletin (Schedule of Classes) for the Summer Session, 1980

JUNE 5, THURSDAY

Classes meet as scheduled

JUNE 9, MONDAY

Last day for adding First Term Courses

JUNE 20, FRIDAY

Last day for all students to drop courses

Last day for all **undergraduate** students to withdraw from the University (First Term)

JUNE 24, TUESDAY

Last day for removing Spring Semester Incomplete grades

JUNE 26, THURSDAY

Last day for all **graduate** students to withdraw from the University (First Summer Term)

JULY 4, FRIDAY

Holiday—Independence Day

JULY 10, THURSDAY

Final Examinations

SECOND SUMMER TERM 1980

JULY 14, MONDAY

Change of Course Day and Registration for Second Summer Term

JULY 15, TUESDAY

Classes meet as scheduled

JULY 17, THURSDAY

Last day to Add or to register for Second Term courses

JULY 30, WEDNESDAY

Last day for all students to drop courses

Last day for all **undergraduate** students to withdraw from the University (Second Term)

JULY 30, WEDNESDAY

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in December of 1980

AUGUST 5, TUESDAY

Last day for all **graduate** students to withdraw from the University (Second Summer Term)

AUGUST 15, FRIDAY

Final Examination

AUGUST 16, SATURDAY

Commencement

EXTENDED SUMMER TERM 1980

JUNE 3, TUESDAY through

JUNE 4, WEDNESDAY

Registration—For detailed dates and times, see the Bulletin (Schedule of Classes) for Summer Session, 1979

JUNE 5, THURSDAY

Classes meet as scheduled

JUNE 10, TUESDAY

Last day for Adding Extended Term courses

JUNE 24, TUESDAY

Last day for removing Spring Semester "Incomplete" grades

JULY 4, FRIDAY

Holiday—Independence Day

JULY 9, WEDNESDAY

Last day for all students to drop courses

Last day for all **undergraduate** students to withdraw from the University (Extended Term)

JULY 14, MONDAY through

JULY 15, TUESDAY

Mid-Term Break

JULY 23, WEDNESDAY

Last day for all **graduate** students to withdraw from the University (Extended Term)

JULY 23, WEDNESDAY

Study Day

JULY 30, WEDNESDAY

Last day for making application to dean of appropriate undergraduate college for degrees to be conferred in December, 1980

AUGUST 15, FRIDAY

Final Examination

AUGUST 16, SATURDAY

Commencement

NINE-WEEK TERM 1980

(Please check the *Schedule of Classes* to see whether or not this term is available.)

JUNE 3, TUESDAY and

JUNE 4, WEDNESDAY

Registration for all summer terms—For detailed dates and times, see the Bulletin (Schedule of Classes) for the summer session, 1980

Students may also register June 5 and 6 in the Late Center for nine-week term courses only without paying late fees.

JUNE 9, MONDAY

Nine-week term classes meet as scheduled

JUNE 11, WEDNESDAY

Last day for adding courses

Last day for making application to the Dean of Graduate Studies for degrees to be conferred in August, 1980. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

1979-80 Tentative Calendar

JUNE 24, TUESDAY

Last day for removing spring semester "Incomplete" grades

JULY 4, FRIDAY

Holiday—Independence Day

JULY 7, MONDAY

Last day for all students to drop courses
Last day for all **undergraduate** students to withdraw from the University (nine-week term)

JULY 30, WEDNESDAY

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in December, 1980

JULY 16, WEDNESDAY

Last day for all **graduate** students to withdraw from the University (nine-week term)

AUGUST 5, TUESDAY

Final examinations (nine-week term)

AUGUST 16, SATURDAY

Commencement

Daily.....40 sessions @ 50 minutes = 2,000 minutes

M W F.....24 sessions @ 90 minutes = 2,160 minutes

Tu Th.....16 sessions @ 135 minutes = 2,160 minutes

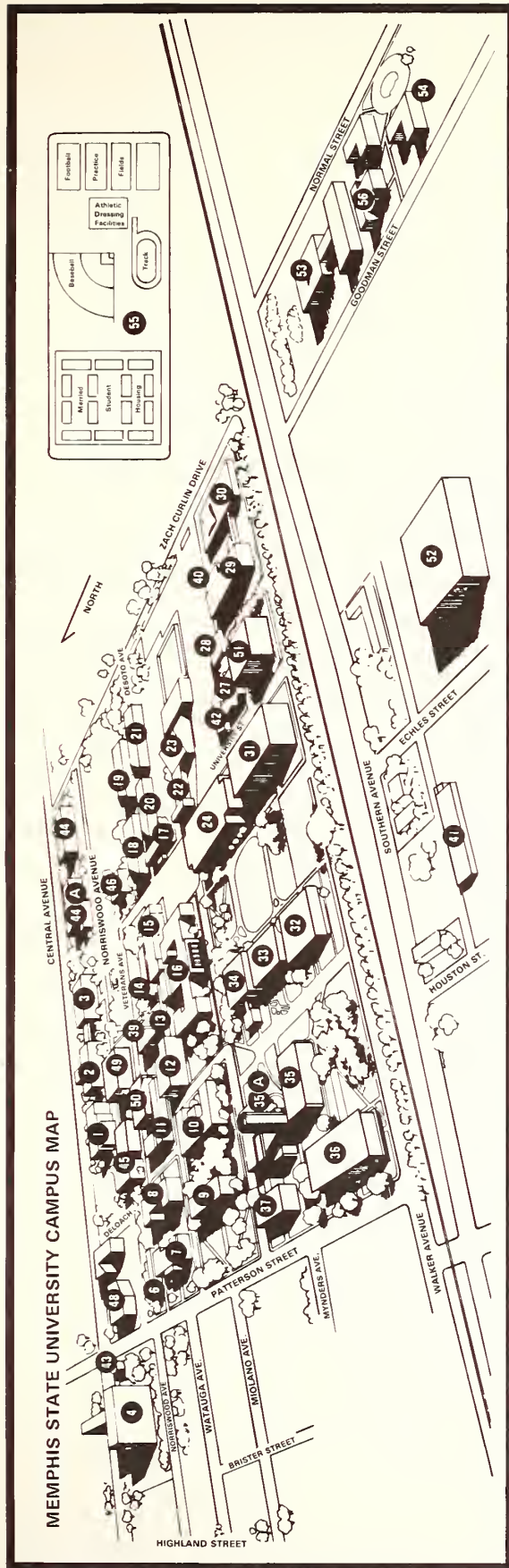
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— NOTES —



- 16. Administration Building - AD
- 54. Alumni Center
- 42. Art Annex - AA
- 11. Art Building - AB
- 40. Athletic Office
- 35. Brister Library - BL
- 35A. Brister Library Tower
- 19. Browning Hall
- 13. Cafeteria
- 30. Campus School - CS
- 33. Clement Humanities Bldg. - CL
- 48. College of Bus. Adm. - BA
- 49. Winfield Dunn Bldg. - WD
- 29. Education Building - ED
- 27. Education Annex - EA

- 32. Ellington Biological Bldg. - EB
- 44. Engineering - EN
- 44A. Engineering Technology - ET
- 23. Field House - FH
- 22. Old Gymnasium (WKNO-TV)
- 20. Hayden Hall
- 46. Health Center - HC
- 39. Heating Plant
- 43. Information Center
- 37. Johnson Hall - JN
- 12. Jones Hall - JO
- 1. Law Building - LW
- 51. Life Sciences Building - LS

- 14. Maintenance Building
- 15. Manning Hall - MN
- 18. McCord Hall
- 50. Meeman Journ. Bldg. - MJ
- 34. Mitchell Hall - MI
- 10. Mynders Hall
- 3. Music Building - MU
- 7. Nellie Angel Smith Hall
- 56. Newport Hall
- 6. Panhellenic Building
- 36. Patterson Building - PT
- 52. Physical Ed. Building - PB
- 41. Printing Services

- 45. Psychology Building - PY
- 8. Rawls Hall
- 4. Richardson Towers - RT
- 21. Robison Hall
- 17. Scates Hall - SC
- 31. Smith Chem. Bldg. - SM
- 55. South Campus
- 53. South Hall
- 28. Special Educ. Building - SE
- 2. Speech and Drama Building - ET
- 24. University Center - UC
- 9. West Hall

Locations not shown on campus map:

Speech and Hearing Center - SHC

Child Development Center - CDC

Chucalissa - CHU

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